Changes for the Better

MITSUBISHI ELECTRIC

SPLIT-TYPE AIR CONDITIONERS

Revision C:
• MXZ-3B30NA has been added.

Please void OBH560 REVISED EDITION-B.

OUTDOOR UNIT

SERVICE MANUAL

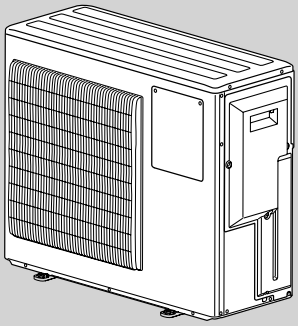
HFC utilized
R410A

No. OBH560
REVISED EDITION-C

Models

MXZ-2B20NA, - 1
MXZ-3B24NA
MXZ-3B30NA
MXZ-4B36NA

Indoor unit service manual
MSZ-A·NA Series (OB450)
MSZ-FD·NA Series (OBH497)
MSZ-FE·NA Series (OBH542)
MSZ-GE·NA Series (OBH548)
MFZ-KA·NA Series(OBH568)
SEZ-KD·NA.TH Series



MXZ-2B20NA

CONTENTS

1. TECHNICAL CHANGES ····· 2
2. PART NAMES AND FUNCTIONS ····· 2
3. SPECIFICATION ····· 3
4. NOISE CRITERIA CURVES ····· 7
5. OUTLINES AND DIMENSIONS ····· 8
6. WIRING DIAGRAM ····· 11
7. REFRIGERANT SYSTEM DIAGRAM ····· 13
8. DATA ····· 19
9. ACTUATOR CONTROL ····· 37
10. SERVICE FUNCTIONS ····· 37
11. TROUBLESHOOTING ····· 39
12. DISASSEMBLY INSTRUCTIONS ····· 57

INDOOR UNITS COMBINATION SHEETS
PARTS CATALOG (OBB560)

The Slim Line.
From Mitsubishi Electric.

Mr.SLIM™

9700058 33223

Revision A:
• MXZ-2B20NA- 1 has been added.

Revision B:
• MXZ-3B24NA and MXZ-4B36NA have been added.

Revision C:
• MXZ-3B30NA has been added.

1 TECHNICAL CHANGES

MXZ-2B20NA

New model

MXZ-2B20NA ➔ MXZ-2B20NA -1

1. Outdoor fan motor has been changed.
2. Outdoor electronic control P.C. board has been changed.
3. LEV coil has been changed.

MXZ-3B24NA

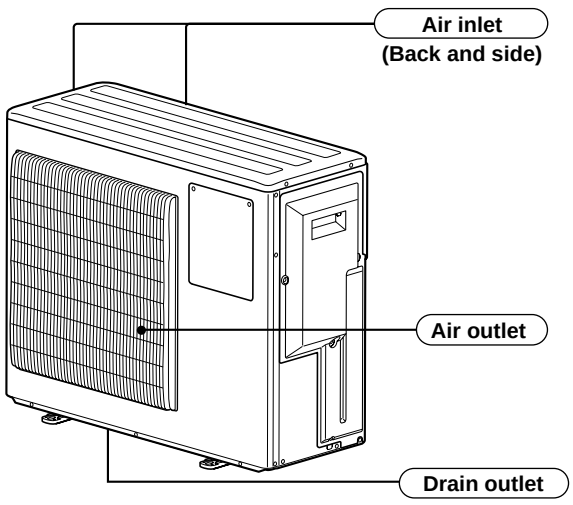
New model

MXZ-3B30NA

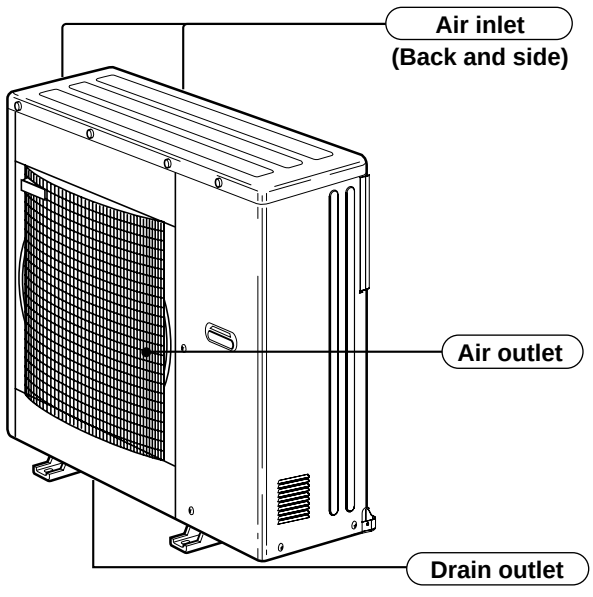
New model

2 PART NAMES AND FUNCTIONS

MXZ-2B20NA



MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA



3 SPECIFICATION

Item		Outdoor model	MXZ-2B20NA	
		Indoor type	Non-Duct (09+09)	Duct (09+12)
Capacity	Cooling ❋1	Btu/h	18,000	20,000
	Heating 47 ❋1	Btu/h	22,000	22,000
	Heating 17 ❋2	Btu/h	14,500	12,500
Power consumption	Cooling ❋1	W	1,440	2,190
	Heating 47 ❋1	W	1,650	1,780
	Heating 17 ❋2	W	1,500	1,430
EER	Cooling		12.50	9.10
SEER	Cooling		18.0	15.5
HSPF IV (V)	Heating		8.9 (7.0)	8.5 (6.9)
COP	Heating		3.91	3.62
External finish			Munsell 3.0Y 7.8/1.1	
Power supply		V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)		A	20	
Min. circuit ampacity		A	15	
Fan motor		F.L.A	0.96	
Compressor	Model		SNB130FQBH1	
	Winding resistance (at 68°F) Ω		U-V 0.98 V-W 0.98 W-U 0.98	
		R.L.A	10.1	
		L.R.A	15	
Refrigerant control			LEV	
Sound level		dB(A)	49/51	
Defrost method			Reverse cycle	
Dimensions	W	in.	33-1/16	
	D	in.	13	
	H	in.	27-15/16	
Weight		lb.	130	
Remote controller			Wireless type	
Control voltage (by built-in transformer)			12-24 V DC	
Refrigerant piping			Not supplied (optional parts)	
Valve size	Liquid	in.	1/4	
	Gas	in.	A,B: 3/8	
Connection method	Indoor		Flared	
	Outdoor		Flared	
Refrigerant charge (R410A)		lb.	5 lb. 15 oz.	
Refrigeration oil (Model)		oz.	23.7 (NEO22)	

NOTE : Test conditions are based on ARI 210/240.

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	❋1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	❋1: Standard rating-heating at rated compressor speed	70	60	47	43
	❋2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

Item			Outdoor model	MXZ-3B24NA	
			Indoor type	Non-Duct (06+06+09)	Duct (09+09+09)
Capacity	Cooling ❄1		Btu/h	22,000	23,600
	Heating 47 ❄1		Btu/h	25,000	24,600
	Heating 17 ❄2		Btu/h	18,800	17,000
Power consumption	Cooling ❄1		W	1,760	2,460
	Heating 47 ❄1		W	1,750	1,900
	Heating 17 ❄2		W	2,120	2,230
EER	Cooling			12.50	9.60
SEER	Cooling			17.5	15.0
HSPF IV (V)	Heating			9.3 (7.0)	8.5 (6.9)
COP	Heating			4.20	3.80
External finish				Munsell 3.0Y 7.8/1.1	
Power supply			V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)			A	20	
Min. circuit ampacity			A	15	
Fan motor			F.L.A	0.93	
Compressor	Model			TNB220FMCH	
	Winding resistance (at 68°F) Ω			U-V 0.61 V-W 0.61 W-U 0.61	
			R.L.A	11	
			L.R.A	15	
Refrigerant control				LEV	
Sound level			dB(A)	54/49	
Defrost method				Reverse cycle	
Dimensions	W		in.	35-7/16	
	D		in.	12-19/32	
	H		in.	35-7/16	
Weight			lb.	150	
Remote controller				Wireless type	
Control voltage (by built-in transformer)				12-24 V DC	
Refrigerant piping				Not supplied (optional parts)	
Valve size	Liquid		in.	1/4	
	Gas		in.	A: 1/2 B,C: 3/8	
Connection method	Indoor			Flared	
	Outdoor			Flared	
Refrigerant charge (R410A)			lb.	7 lb. 11 oz.	
Refrigeration oil (Model)			oz.	29.4 (NEO22)	

NOTE : Test conditions are based on ARI 210/240.

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	❄1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	❄1: Standard rating-heating at rated compressor speed	70	60	47	43
	❄2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

Item			Outdoor model	MXZ-3B30NA	
			Indoor type	Non-Duct (06+06+09)	Duct (09+09+09)
Capacity	Cooling ※1		Btu/h	28,400	27,400
	Heating 47 ※1		Btu/h	28,600	27,600
	Heating 17 ※2		Btu/h	18,800	18,000
Power consumption	Cooling ※1		W	3,120	3,330
	Heating 47 ※1		W	2,150	2,220
	Heating 17 ※2		W	2,120	2,140
EER	Cooling			9.10	8.23
SEER	Cooling			17.5	14.5
HSPF IV (V)	Heating			10.5 (7.2)	9.5 (7.0)
COP	Heating			3.90	3.64
External finish				Munsell 3.0Y 7.8/1.1	
Power supply			V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)			A	20	
Min. circuit ampacity			A	15	
Fan motor			F.L.A	0.93	
Compressor	Model			TNB220FMCH	
	Winding resistance (at 68°F) Ω			U-V 0.61 V-W 0.61 W-U 0.61	
			R.L.A	11	
			L.R.A	15	
Refrigerant control				LEV	
Sound level			dB(A)	49/49	
Defrost method				Reverse cycle	
Dimensions	W		in.	35-7/16	
	D		in.	12-19/32	
	H		in.	35-7/16	
Weight			lb.	150	
Remote controller				Wireless type	
Control voltage (by built-in transformer)				12-24 V DC	
Refrigerant piping				Not supplied (optional parts)	
Valve size	Liquid		in.	1/4	
	Gas		in.	A: 1/2 B,C: 3/8	
Connection method	Indoor			Flared	
	Outdoor			Flared	
Refrigerant charge (R410A)			lb.	7 lb. 11 oz.	
Refrigeration oil (Model)			oz.	29.4 (NEO22)	

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	※1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	※1: Standard rating-heating at rated compressor speed	70	60	47	43
	※2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

Item			Outdoor model	MXZ-4B36NA			
			Indoor type	Non-Duct (09+09+09+09)		Duct (09+09+09+09)	
Capacity	Cooling ❄1		Btu/h	35,400		34,400	
	Heating 47 ❄1		Btu/h	208 V	36,000	208 V	34,400
				230 V	36,000	230 V	34,400
	Heating 17 ❄2		Btu/h	24,600		25,400	
Power consumption	Cooling ❄1		W	3,760		3,940	
	Heating 47 ❄1		W	208 V	3,020	208 V	3,100
				230 V	3,020	230 V	3,100
	Heating 17 ❄2		W	3,340		3,450	
EER	Cooling			9.40		8.70	
SEER	Cooling			18.0		15.0	
HSPF IV (V)	Heating			9.3 (7.2)		9.0(7.0)	
COP	Heating			3.50		3.25	
External finish				Munsell 3.0Y 7.8/1.1			
Power supply			V, phase, Hz	208/230, 1, 60			
Max. fuse size (time delay)			A	20			
Min. circuit ampacity			A	19			
Fan motor			F.L.A	0.93			
Compressor	Model			TNB220FMCH			
	Winding resistance (at 68°F) Ω			U-V 0.61 V-W 0.61 W-U 0.61			
			R.L.A	14.4			
			L.R.A	15			
Refrigerant control				LEV			
Sound level			dB(A)	54/57			
Defrost method				Reverse cycle			
Dimensions	W		in.	35-7/16			
	D		in.	12-19/32			
	H		in.	35-7/16			
Weight			lb.	153			
Remote controller				Wireless type			
Control voltage (by built-in transformer)				12-24 V DC			
Refrigerant piping				Not supplied (optional parts)			
Valve size	Liquid		in.	1/4			
	Gas		in.	A: 1/2 B,C,D: 3/8			
Connection method	Indoor			Flared			
	Outdoor			Flared			
Refrigerant charge (R410A)			lb.	8 lb. 13 oz.			
Refrigeration oil (Model)			oz.	29.4 (NEO22)			

NOTE : Test conditions are based on ARI 210/240.

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	❄1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
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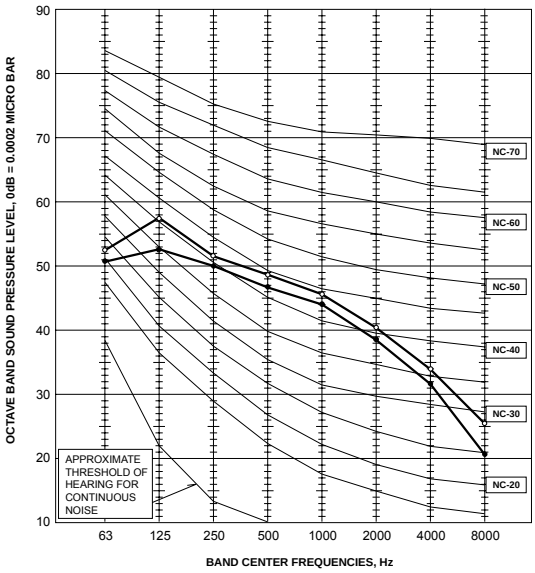
	❄2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

4 NOISE CRITERIA CURVES

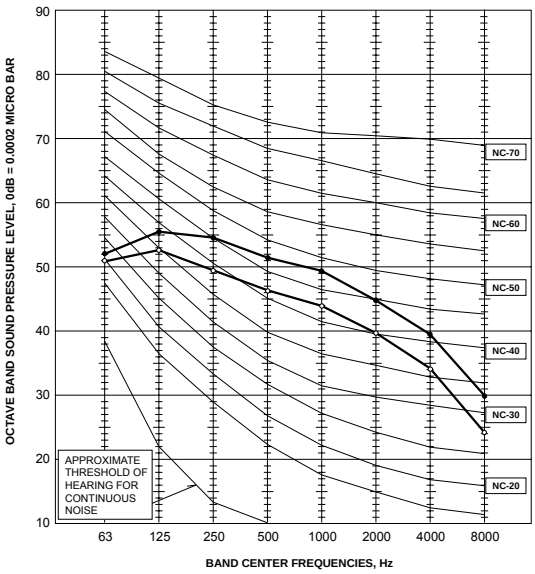
MXZ-2B20NA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	49	●—●
High	Heating	51	○—○



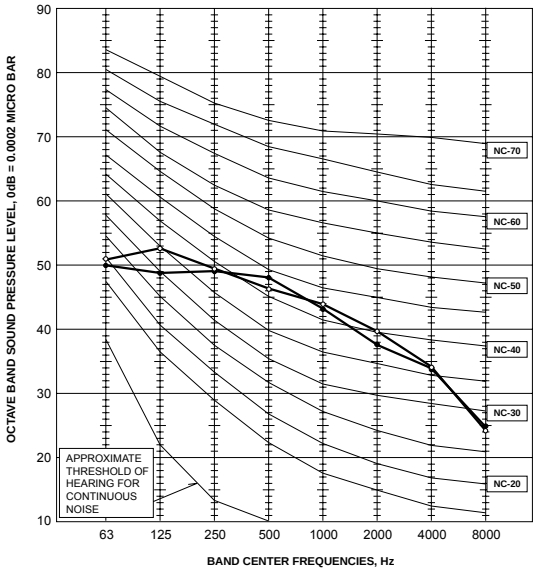
MXZ-3B24NA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	54	●—●
High	Heating	49	○—○



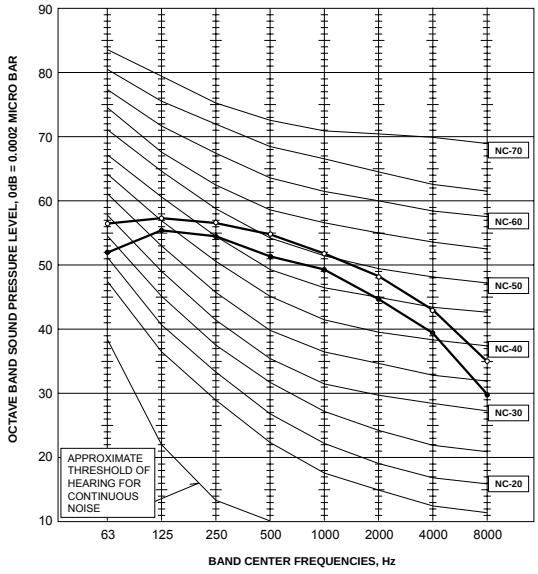
MXZ-3B30NA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	49	●—●
High	Heating	49	○—○



MXZ-4B36NA

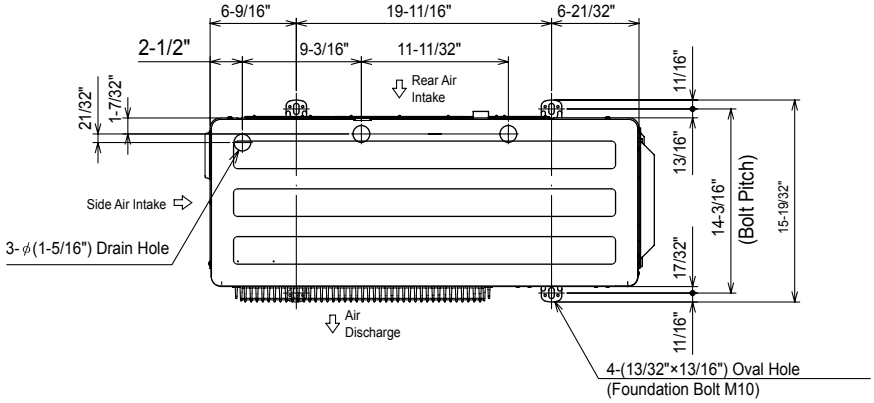
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	54	●—●
High	Heating	57	○—○

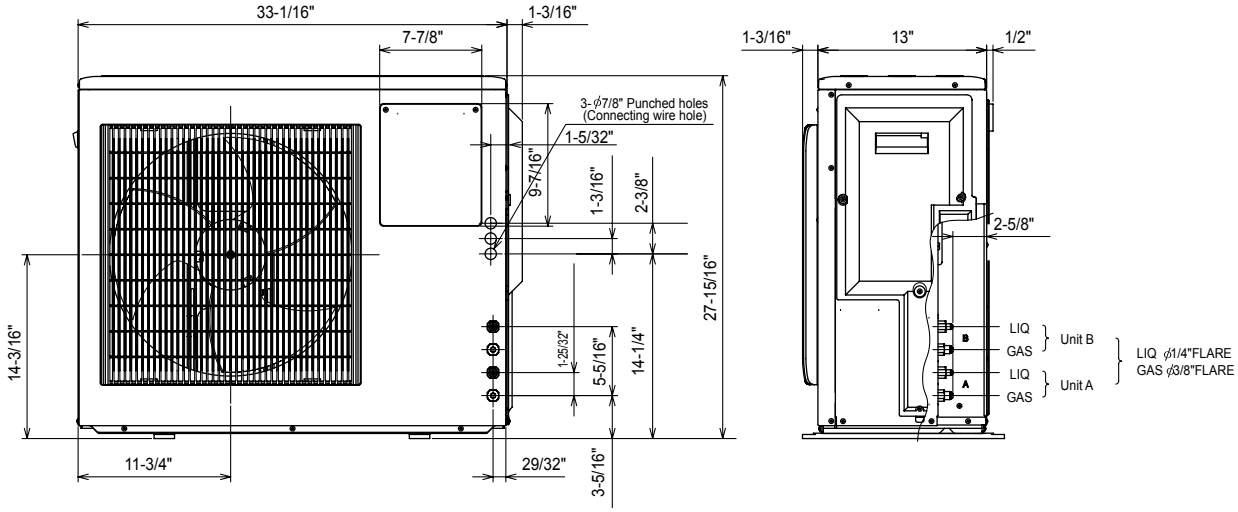


5 OUTLINES AND DIMENSIONS

MXZ-2B20NA

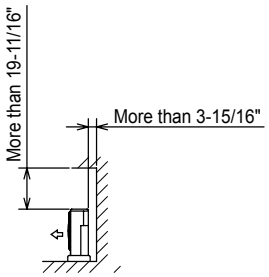
Unit: inch



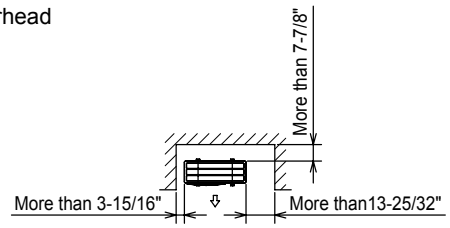


1.Installation space

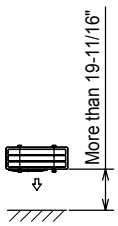
Note : Leave front and both sides free of obstruction.

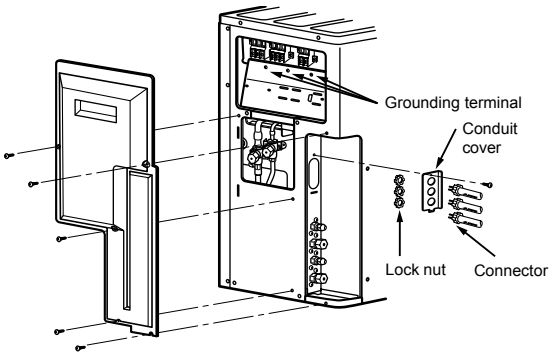


Note : Leave front and overhead free of obstruction.



Note : Leave rear, overhead and both sides free of obstruction.





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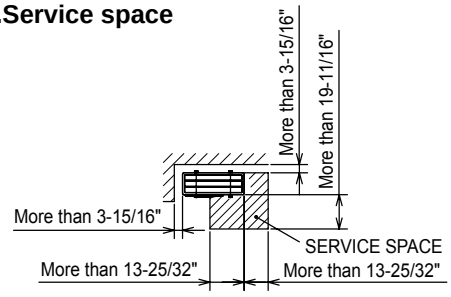
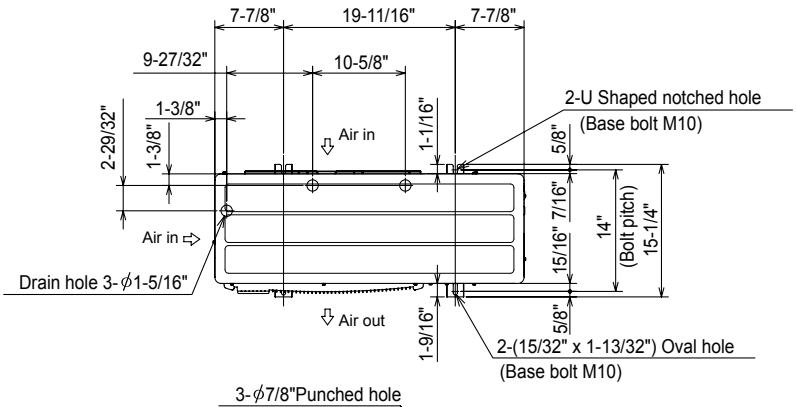
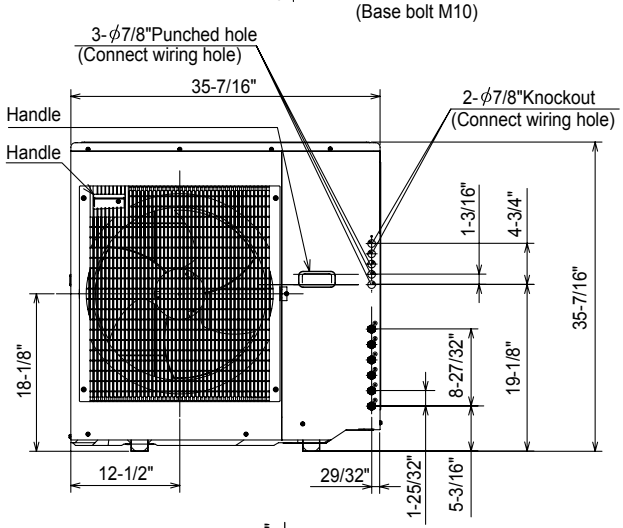
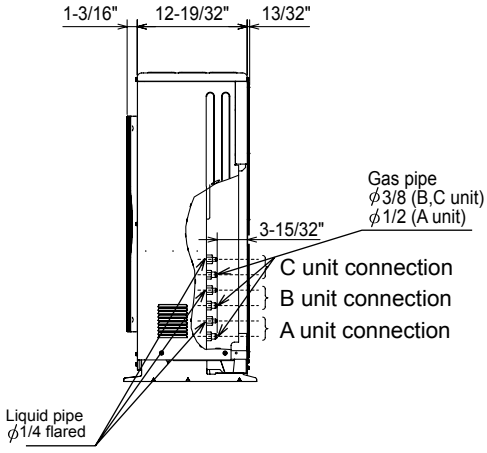


MXZ-3B24NA
MXZ-3B30NA

Unit: inch

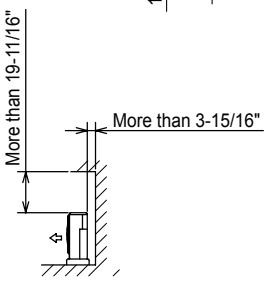




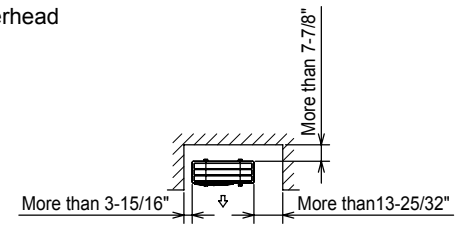


1.Installation space

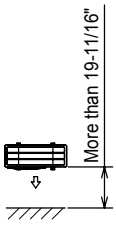
Note : Leave front and both sides free of obstruction.

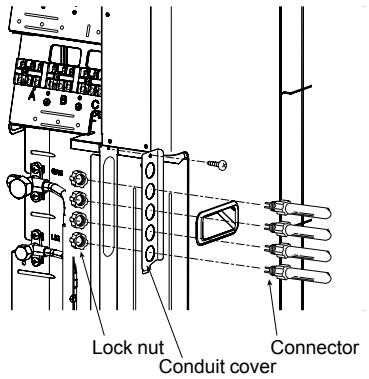


Note : Leave front and overhead free of obstruction.

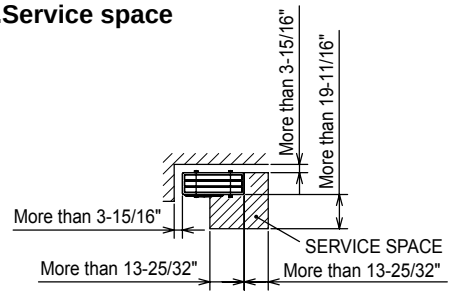


Note : Leave rear, overhead and both sides free of obstruction.



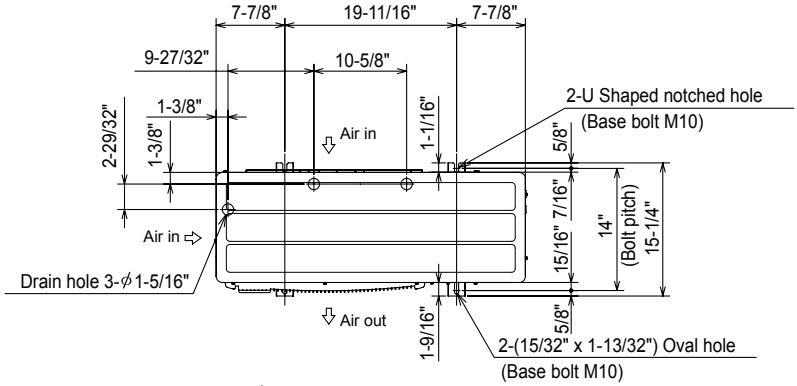


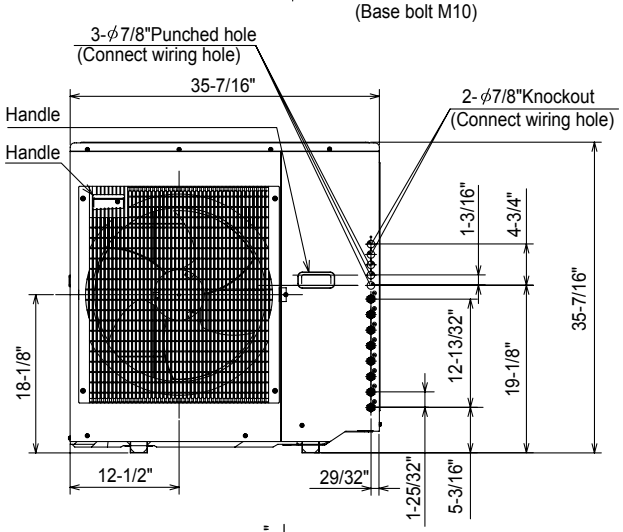
2.Service space

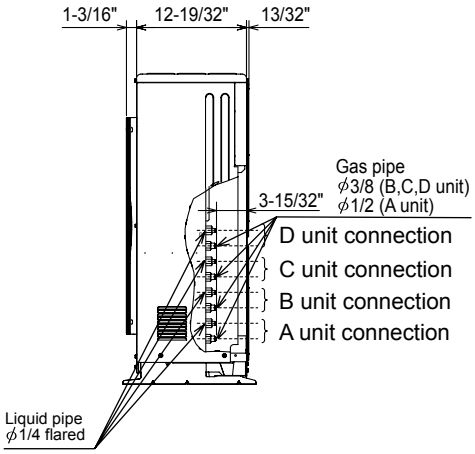


MXZ-4B36NA

Unit: inch

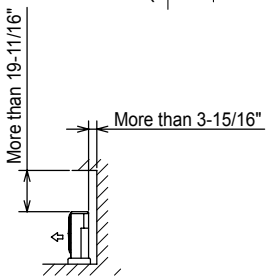




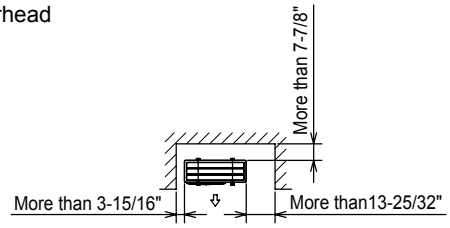


1.Installation space

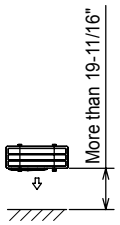
Note : Leave front and both sides free of obstruction.

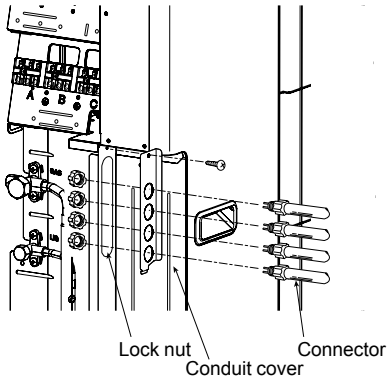


Note : Leave front and overhead free of obstruction.

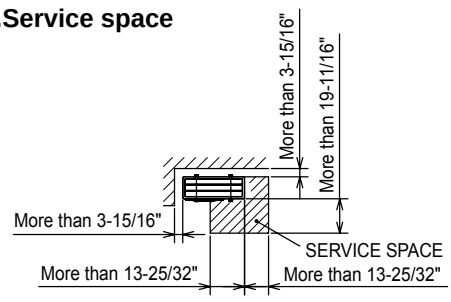


Note : Leave rear, overhead and both sides free of obstruction.



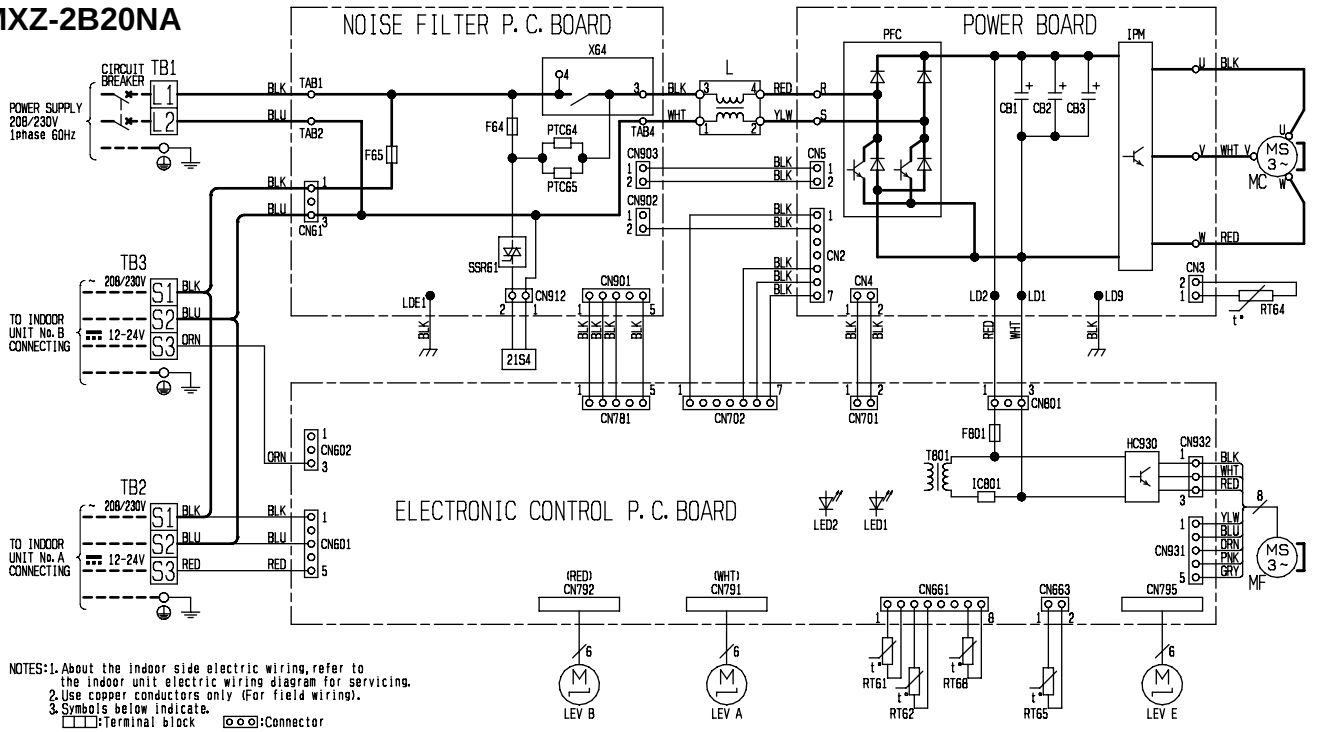


2.Service space



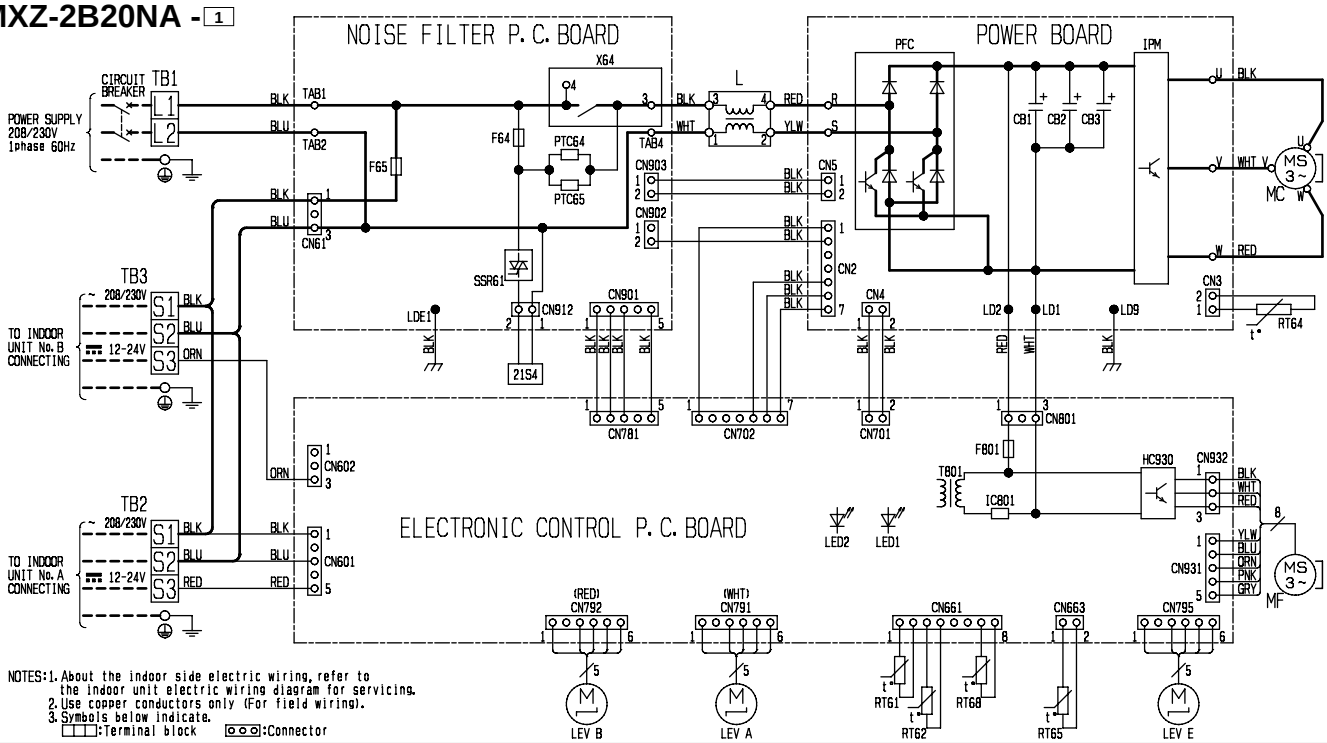
6 WIRING DIAGRAM

MXZ-2B20NA



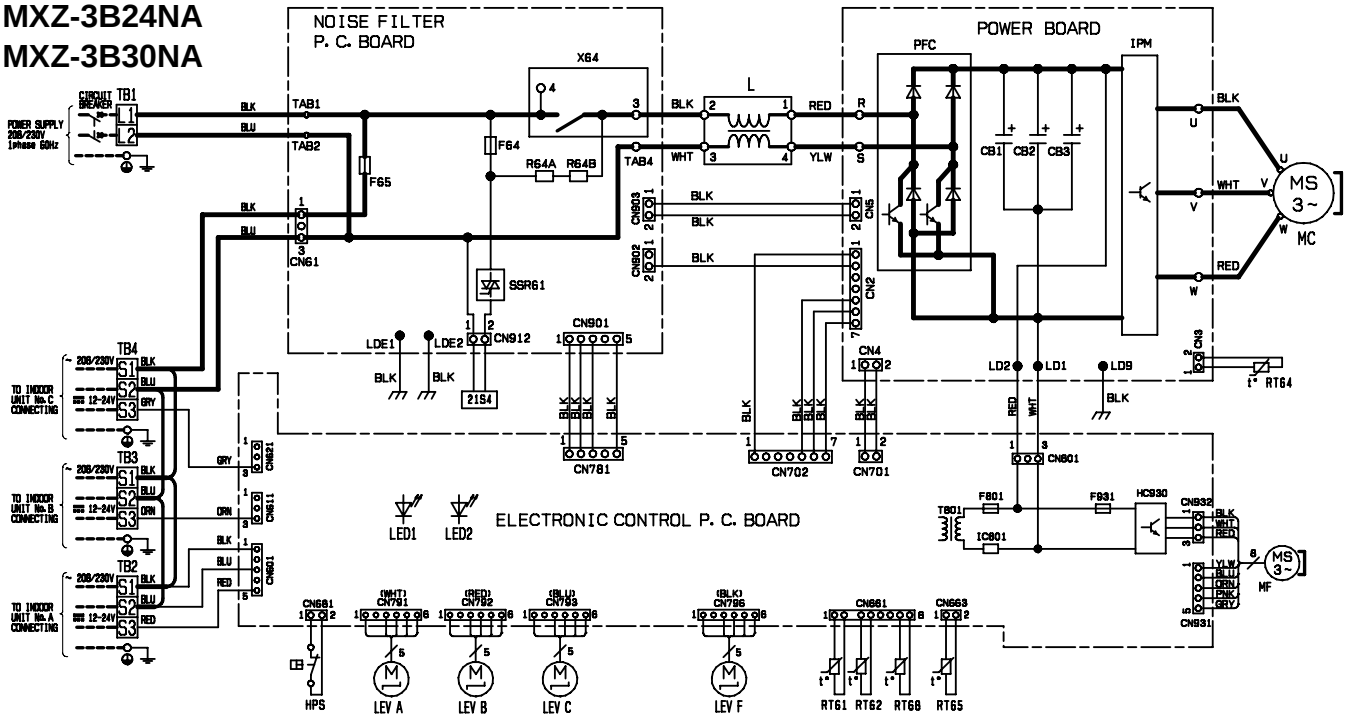
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IPM	POWER MODULE	MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
F64	FUSE (T2AL250V)	L	REACTOR	PFC	POWER FACTOR CONTROLLER	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR		
F65	FUSE (T6.3AL250V)	LED1, 2	LED	PTC64, 65	CIRCUIT PROTECTION	SSR61	SOLENOID COIL RELAY		
F801	FUSE (T3.15AL250V)	LEV A, B	EXPANSION VALVE	RT61	DEFROST THERMISTOR	T801	TRANSFORMER		
HC930	POWER MODULE	LEV E	EXPANSION VALVE	RT62	DISCHARGE TEMP. THERMISTOR	TB1~3	TERMINAL BLOCK		
IC801	POWER DEVICE	MC	COMPRESSOR	RT64	FIN TEMP. THERMISTOR	X64	RELAY		

MXZ-2B20NA - 1



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	IPM	POWER MODULE	MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
F64	FUSE (T2AL250V)	L	REACTOR	PFC	POWER FACTOR CONTROLLER	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR		
F65	FUSE (T6.3AL250V)	LED1, 2	LED	PTC64, 65	CIRCUIT PROTECTION	SSR61	SOLENOID COIL RELAY		
F801	FUSE (T3.15AL250V)	LEV A, B	EXPANSION VALVE	RT61	DEFROST THERMISTOR	T801	TRANSFORMER		
HC930	POWER MODULE	LEV E	EXPANSION VALVE	RT62	DISCHARGE TEMP. THERMISTOR	TB1~3	TERMINAL BLOCK		
IC801	POWER DEVICE	MC	COMPRESSOR	RT64	FIN TEMP. THERMISTOR	X64	RELAY		

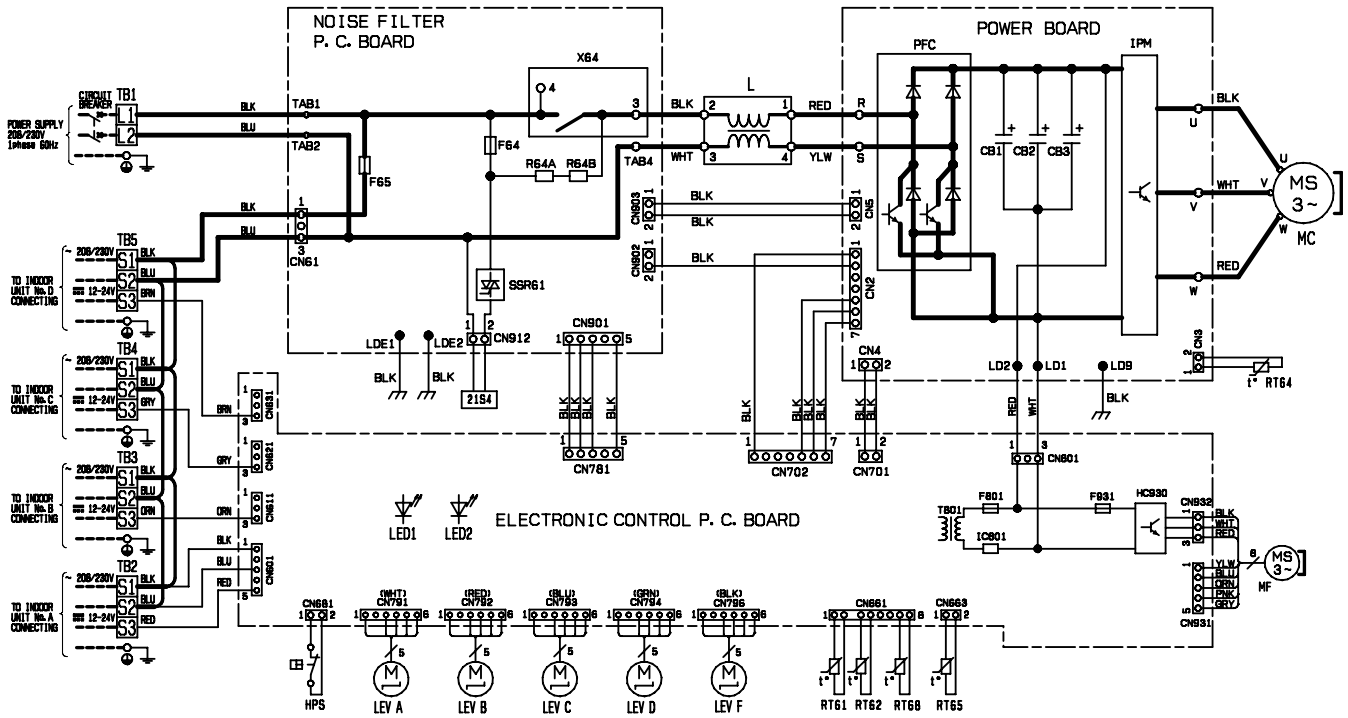
MXZ-3B24NA
MXZ-3B30NA



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	HPS	HIGH PRESSURE SWITCH	LEV F	EXPANSION VALVE	RT62	DISCHARGE TEMP. THERMISTOR	T801	TRANSFORMER
F64	FUSE(T2AL250V)	IPM	POWER MODULE	MC	COMPRESSOR	RT64	FIN TEMP. THERMISTOR	TB1~5	TERMINAL BLOCK
F65	FUSE(T6.3AL250V)	IC801	POWER DEVICE	MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR	X64	RELAY
F801	FUSE(T3.15AL250V)	L	REACTOR	PFC	POWER FACTOR CONTROLLER	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
F931	FUSE(T3.15AL250V)	LED 1,2	LED	R64A,B	RESISTOR				
HC930	POWER MODULE	LEV A~C	EXPANSION VALVE	RT61	DEFROST THERMISTOR	SSR61	SOLENOID COIL RELAY		

NOTES:
1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (For field wiring).
3. Symbols below indicate.
   :Terminal block
   :connector

MXZ-4B36NA



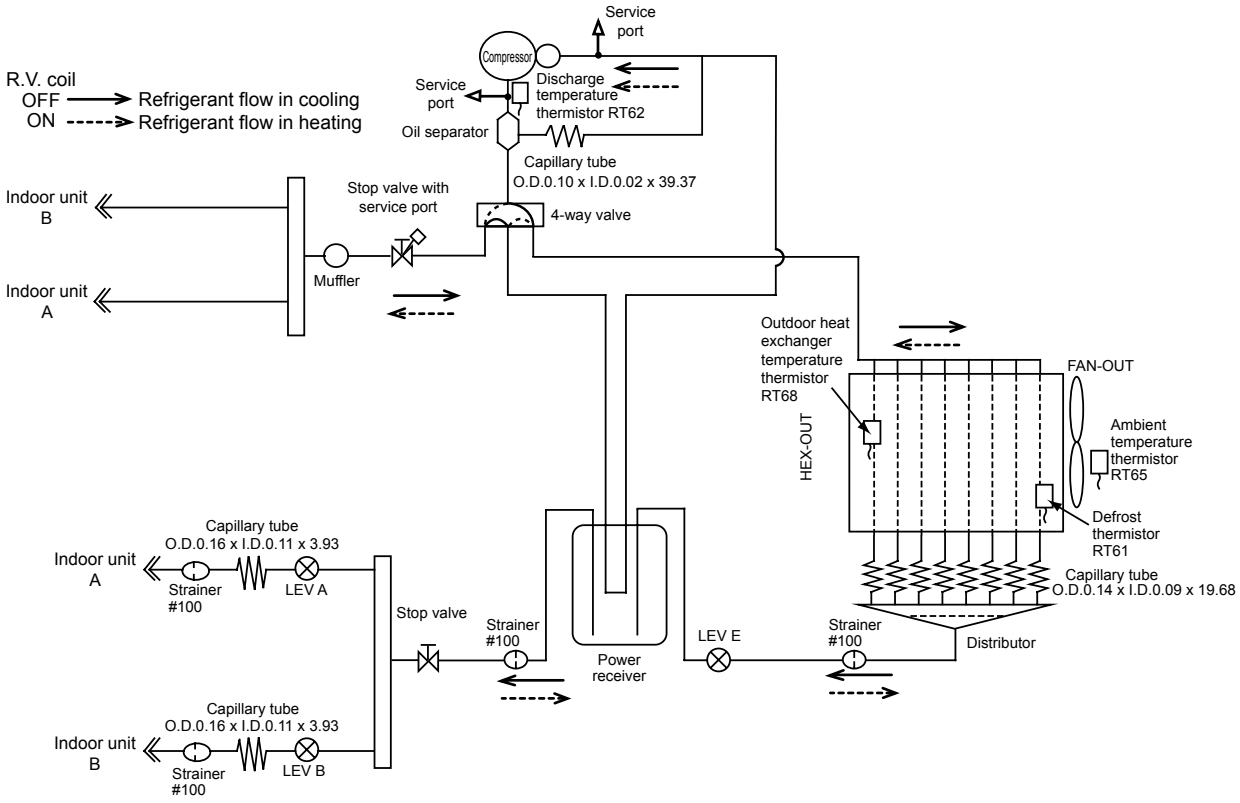
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	HPS	HIGH PRESSURE SWITCH	LEV F	EXPANSION VALVE	RT62	DISCHARGE TEMP. THERMISTOR	T801	TRANSFORMER
F64	FUSE(T2AL250V)	IC801	POWER DEVICE	MC	COMPRESSOR	RT64	FIN TEMP. THERMISTOR	TB1~5	TERMINAL BLOCK
F65	FUSE(T6.3AL250V)	IPM	POWER MODULE	MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR	X64	RELAY
F801	FUSE(T3.15AL250V)	L	REACTOR	PFC	POWER FACTOR CONTROLLER	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
F931	FUSE(T3.15AL250V)	LED 1,2	LED	R64A,B	RESISTOR				
HC930	POWER MODULE	LEV A~D	EXPANSION VALVE	RT61	DEFROST THERMISTOR	SSR61	SOLENOID COIL RELAY		

NOTES:
1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only (For field wiring).
3. Symbols below indicate.
   :Terminal block
   :connector

7 REFRIGERANT SYSTEM DIAGRAM

MXZ-2B20NA

Unit: inch



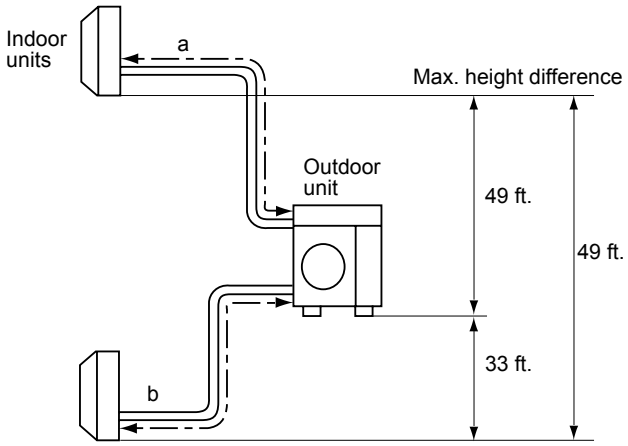
Operating Range **MXZ-2B20NA**

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION
MXZ-2B20NA

Piping length each indoor unit (a, b)	82 ft. MAX.
Total piping length (a+b)	164 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	50 MAX.

✻It is irrelevant which unit is higher.



- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, see the appropriate parts catalog, Optional parts "DIFFERENT DIAMETER PIPE"(2-1.).

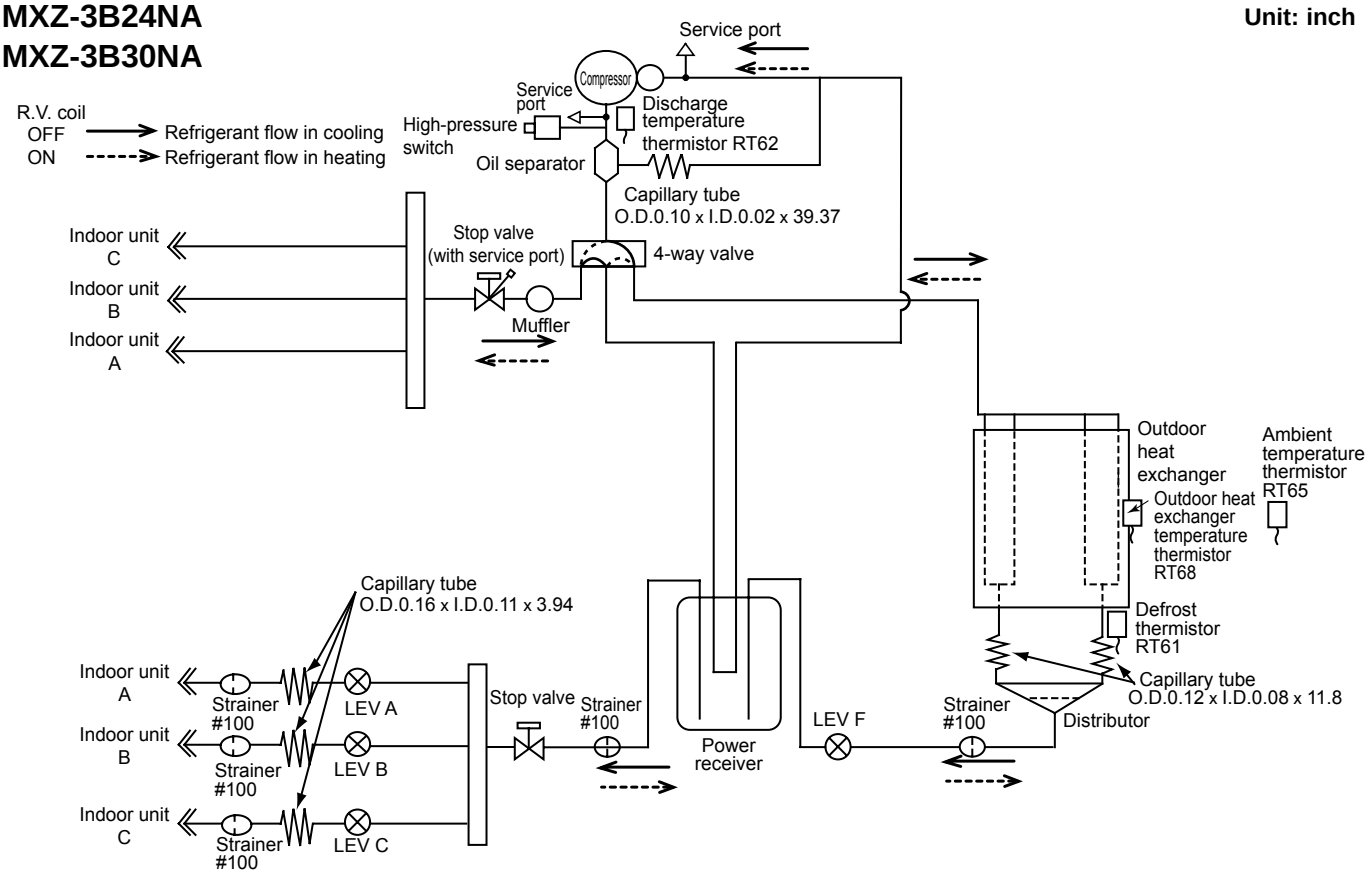
Unit: inch

Indoor unit class	Extension pipe diameter	
09 or less	Liquid	1/4
	Gas	3/8
12	Liquid	1/4
	Gas	3/8
15	Liquid	1/4
	Gas	1/2

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	3/8
Indoor unit B	Liquid	1/4
	Gas	3/8

MXZ-3B24NA
MXZ-3B30NA

Unit: inch



Operating Range **MXZ-3B24NA MXZ-3B30NA**

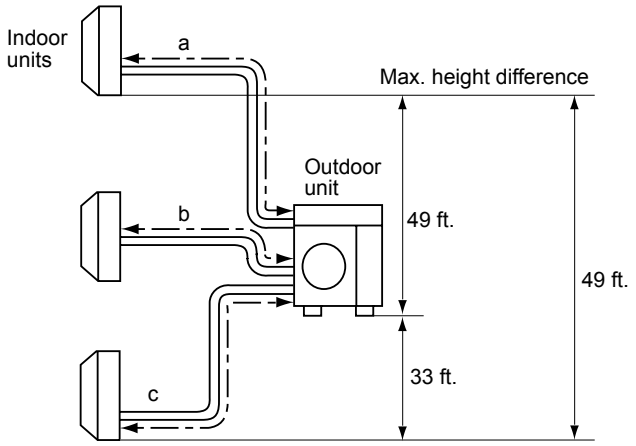
		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

MXZ-3B24NA MXZ-3B30NA

Piping length each indoor unit (a, b, c)	82 ft. MAX.
Total piping length (a+b+c)	230 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	70 MAX.

✻It is irrelevant which unit is higher.



- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, see the appropriate parts catalog, Optional parts "DIFFERENT DIAMETER PIPE"(2-1.).

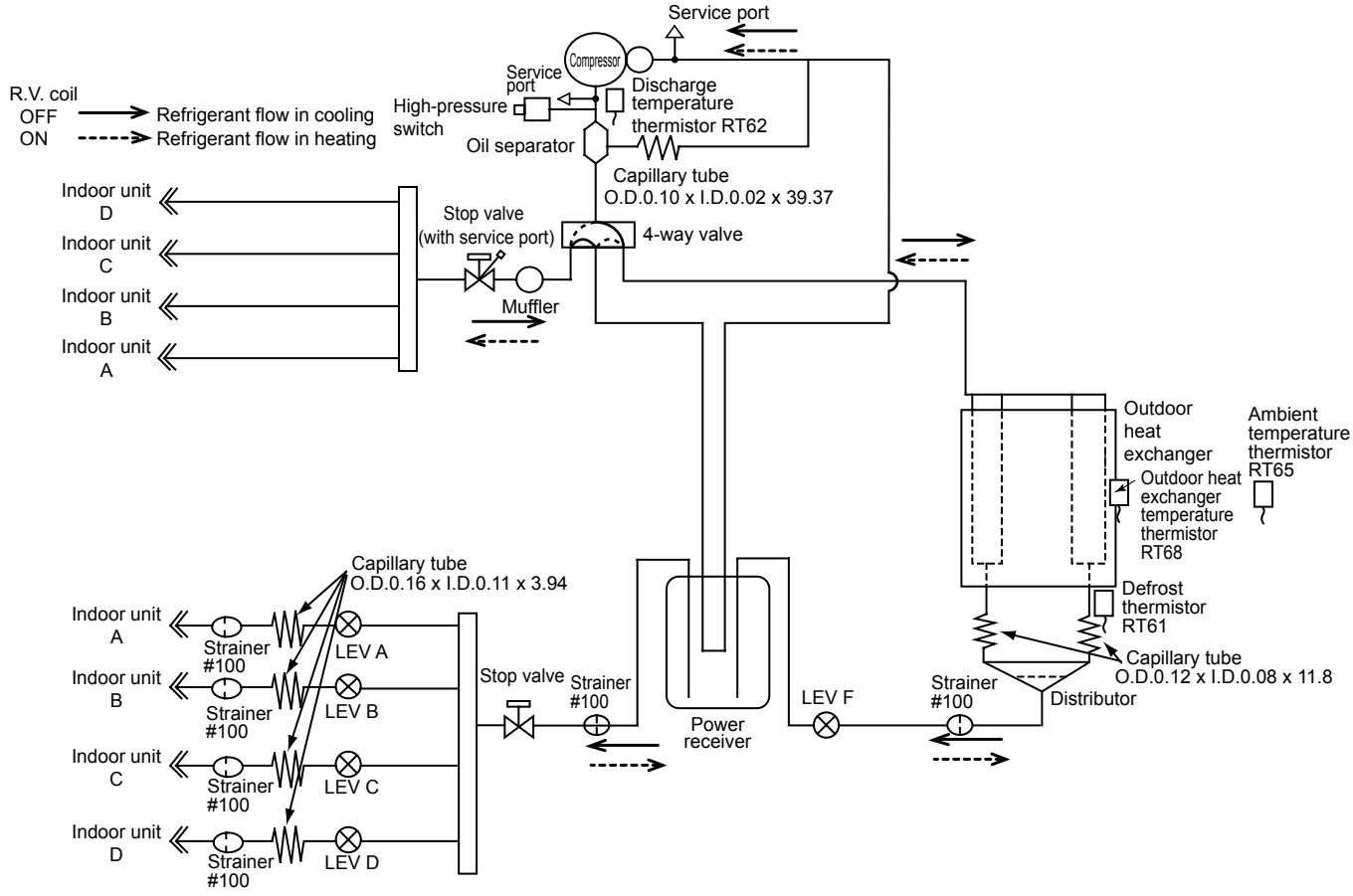
Unit : inch

Indoor unit class	Extension pipe diameter	
09 or less	Liquid	1/4
	Gas	3/8
12	Liquid	1/4
	Gas	3/8
15	Liquid	1/4
	Gas	1/2
17	Liquid	1/4
	Gas	1/2
18	Liquid	1/4
	Gas	1/2
24 **(MXZ-3B30NA only)**	Liquid	1/4
	Gas	5/8

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8

MXZ-4B36NA

Unit: inch



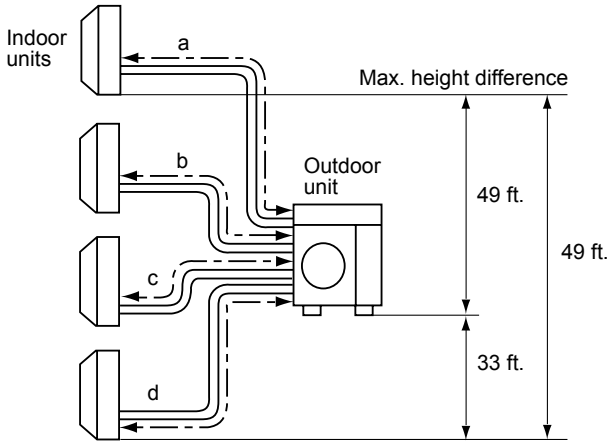
Operating Range **MXZ-4B36NA**

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION
MXZ-4B36NA

Piping length each indoor unit (a, b, c, d)	82 ft. MAX.
Total piping length (a+b+c+d)	230 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	70 MAX.

✻It is irrelevant which unit is higher.



- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, see the appropriate parts catalog, Optional parts "DIFFERENT DIAMETER PIPE"(2-1.).

Unit : inch

Indoor unit class	Extension pipe diameter	
09 or less	Liquid	1/4
	Gas	3/8
12	Liquid	1/4
	Gas	3/8
15	Liquid	1/4
	Gas	1/2
17	Liquid	1/4
	Gas	1/2
18	Liquid	1/4
	Gas	1/2
24	Liquid	1/4
	Gas	5/8

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8
Indoor unit D	Liquid	1/4
	Gas	3/8

8 DATA

Model				MXZ-2B20NA			
Indoor type				Non-Duct (09+09)		Duct (09+12)	
Item			Unit	Cooling	Heating	Cooling	Heating
Total	Capacity		But/h	18,000	22,000	20,000	22,000
	SHF		–	–	–	–	–
	Input		kW	1.44	1.65	2.19	1.78
Electrical circuit	Power supply (V,phase,Hz)			208/230, 1, 60			
	Input		kW	1.396	1.604	2.06	1.69
	Comp. current (208/230V)		A	6.08/5.87	7.25/6.80	9.81/8.87	7.98/7.22
	Fan motor current		A	0.43/0.39	0.43/0.39	0.43/0.39	0.43/0.39
Refrigerant circuit	Condensing pressure		PSIG	411	319	417	350
	Suction pressure		PSIG	141	102	130	101
	Discharge temperature		ºF	169	154	174	172
	Condensing temperature		ºF	114	100	120	104
	Suction temperature		ºF	71	46	65	46
	Comp. shell bottom temp.		ºF	163	149	185	167
	Ref. pipe length [Total pipe length for multi-system]		ft	25 [50]			
	Refrigerant charge (R410A)		–	5 lb. 15 oz.			
Outdoor unit	Intake air temperature	DB	ºF	95	47	95	47
		WB	ºF	–	43	–	43
	Fan speed		rpm	650	700	650	700
	Airflow		CFM	1485	1640	1485	1640

Model				MXZ-3B24NA			
Indoor type				Non-Duct (06+06+09)		Duct (09+09+09)	
Item			Unit	Cooling	Heating	Cooling	Heating
Total	Capacity		But/h	22,000	25,000	23,600	24,600
	SHF		–	–	–	–	–
	Input		kW	1.76	1.75	2.46	1.9
Electrical circuit	Outdoor unit			MXZ-3B24NA			
	Power supply (V,phase,Hz)			208/230,1,60			
	Input		kW	1.694	1.681	2.28	1.78
	Comp. current (208/230V)		A	8.00/7.23	7.94/7.18	10.90/9.86	8.43/7.62
	Fan motor current		A	0.43/0.39	0.43/0.39	0.43/0.39	0.43/0.39
Refrigerant circuit	Condensing pressure		PSIG	394	296	408	324
	Suction pressure		PSIG	158	98	139	100
	Discharge temperature		ºF	173	153	167	164
	Condensing temperature		ºF	115	93	117	99
	Suction temperature		ºF	79	47	58	49
	Comp. shell bottom temp.		ºF	159	134	153	144
	Ref. pipe length [Total pipe length for multi-system]		ft	25[75]			
	Refrigerant charge (R410A)		–	7 lb.11 oz.			
Outdoor unit	Intake air temperature	DB	ºF	95	47	95	47
		WB	ºF	–	43	–	43
	Fan speed		rpm	750	600	750	600
	Airflow		CFM	2,068	1,605	2,068	1,605

Model				MXZ-3B30NA			
Indoor type				Non-Duct (09+09+12)		Duct (09+09+09)	
Item			Unit	Cooling	Heating	Cooling	Heating
Total	Capacity		But/h	28,400	28,600	27,400	27,600
	SHF		–	–	–	–	–
	Input		kW	3.12	2.15	3.33	2.22
Electrical circuit	Outdoor unit			MXZ-3B30NA			
	Power supply (V,phase,Hz)			208/230,1,60			
	Input		kW	3.047	2.081	3.14	2.09
	Comp. current (208/230V)		A	14.71/13.30	9.92/8.97	15.17/13.72	10.36/9.37
	Fan motor current		A	0.43/0.39	0.43/0.39	0.43/0.39	0.43/0.39
Refrigerant circuit	Condensing pressure		PSIG	489	313	496	325
	Suction pressure		PSIG	145	94	137	100
	Discharge temperature		ºF	208	155	203	168
	Condensing temperature		ºF	130	97	133	99
	Suction temperature		ºF	77	40	63	50
	Comp. shell bottom temp.		ºF	186	136	188	152
	Ref. pipe length [Total pipe length for multi-system]		ft	25[75]			
	Refrigerant charge (R410A)		–	7 lb.11 oz.			
Outdoor unit	Intake air temperature	DB	ºF	95	47	95	47
		WB	ºF	–	43	–	43
	Fan speed		rpm	520	600	520	600
	Airflow		CFM	1,365	1,605	1,365	1,605

Model				MXZ-4B36NA			
Indoor type				Non-Duct (09+09+09+09)		Duct (09+09+09+09)	
Item			Unit	Cooling	Heating	Cooling	Heating
Total	Capacity		But/h	35,400	36,000	34,400	34,400
	SHF		–	–	–	–	–
	Input		kW	3.76	3.02	3.94	3.1
Electrical circuit	Outdoor unit			MXZ-4B36NA			
	Power supply (V,phase,Hz)			208/230,1,60			
	Input		kW	3.672	2.928	3.62	2.86
	Comp. current (208/230V)		A	17.44/15.78	13.83/12.51	17.58/15.90	13.39/12.56
	Fan motor current		A	0.43/0.39	0.43/0.39	0.43/0.39	0.43/0.39
Refrigerant circuit	Condensing pressure		PSIG	485	309	455	347
	Suction pressure		PSIG	142	91	130	95
	Discharge temperature		ºF	198	139	202	163
	Condensing temperature		ºF	129	95	126	102
	Suction temperature		ºF	66	28	65	32
	Comp. shell bottom temp.		ºF	184	127	186	148
	Ref. pipe length [Total pipe length for multi-system]		ft	25[100]			
	Refrigerant charge (R410A)		–	8 lb.13 oz.			
Outdoor unit	Intake air temperature	DB	ºF	95	47	95	47
		WB	ºF	–	43	–	43
	Fan speed		rpm	750	750	750	750
	Airflow		CFM	2,068	2,068	2,068	2,068

8-1. OPERATING RANGE

(1) POWER SUPPLY

	Model	Rating	Guaranteed Voltage
Outdoor unit	MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA	208/230 V 60 Hz 1ϕ	Min. 198 V 208 V 230 V Max. 253 V

(2) OPERATION

Function	Condition \ Intake air temperature	Indoor		Outdoor	
		DB (°F)	WB (°F)	DB (°F)	WB (°F)
Cooling	"A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	Standard rating-heating at rated compressor speed	70	60	47	43
	Low temperature heating at rated compressor speed	70	60	17	15
	Max. temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

The standard specifications apply only to the operation of the air conditioner under normal conditions.
Since operating conditions vary according to the areas where these units are installed, the following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

198 ~ 253 V 60 Hz

(2) AIR FLOW

Air flow should be set at MAX.

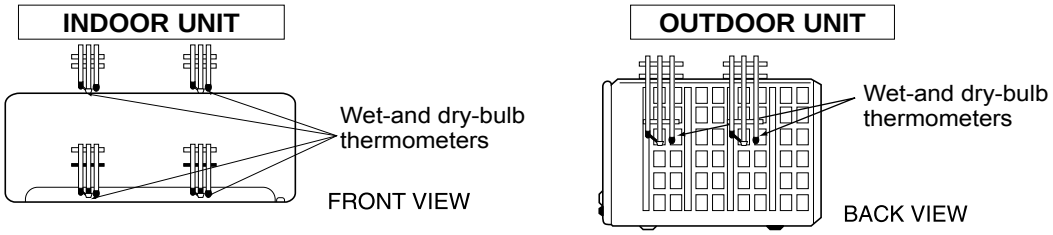
(3) MAIN READINGS

(1) Indoor intake air wet-bulb temperature :	°FWB	Cooling
(2) Indoor outlet air wet-bulb temperature :	°FWB	
(3) Outdoor intake air dry-bulb temperature :	°FDB	
(4) Total input:	W	
(5) Indoor intake air dry-bulb temperature :	°FDB	Heating
(6) Outdoor intake air wet-bulb temperature :	°FWB	
(7) Total input :	W	

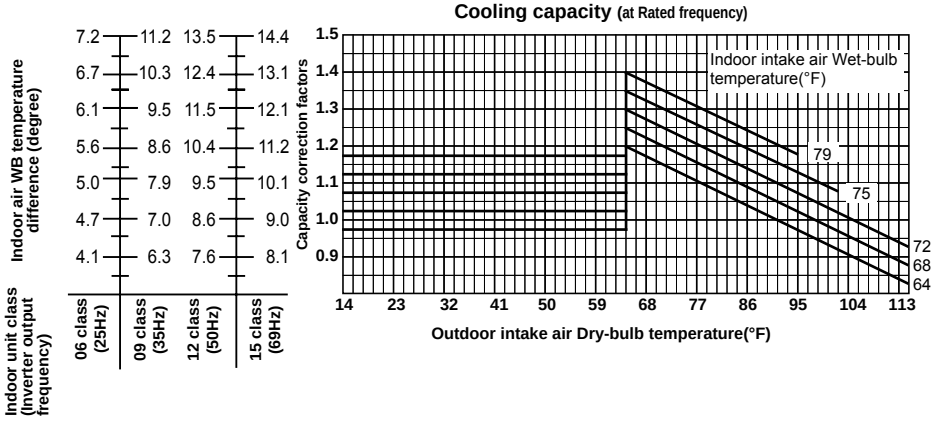
Indoor air wet/dry-bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet/dry-bulb temperature and the indoor outlet air wet/dry-bulb temperature for your reference at service.

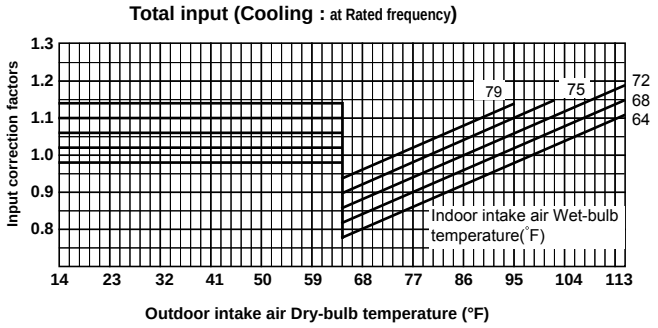
How to measure the indoor air wet-bulb/dry-bulb temperature difference

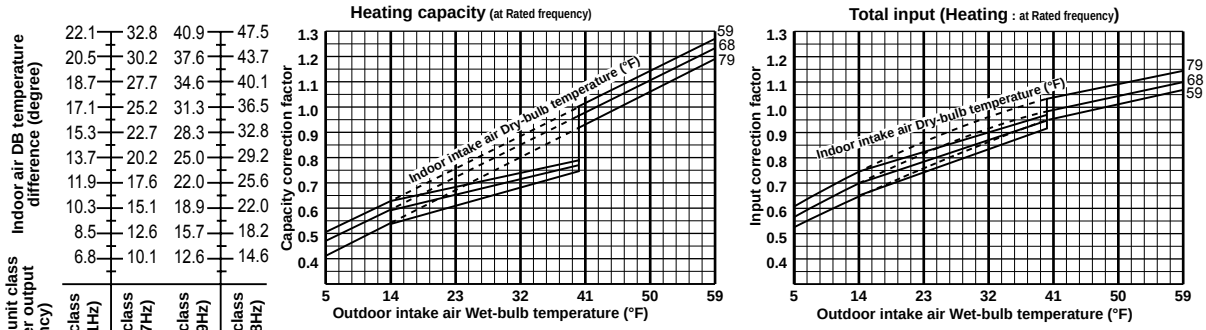
1. Attach at least 2 sets of wet and dry-bulb thermometers to the indoor air intake as shown in the figure, and at least 2 sets of wet and dry-bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet and dry-bulb thermometers to the outdoor air intake.
   Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of room.
5. Press the EMERGENCY OPERATION switch once (twice) to start the EMERGENCY COOL (HEAT) MODE.
6. Compressor starts running at 33 Hz (COOL) or 45 Hz (HEAT). The frequency at each operation mode is fixed.
7. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
8. 10 minutes later, measure temperature again and check that the temperature does not change.



8-2. CAPACITY AND THE INPUT CURVES
MXZ-2B20NA

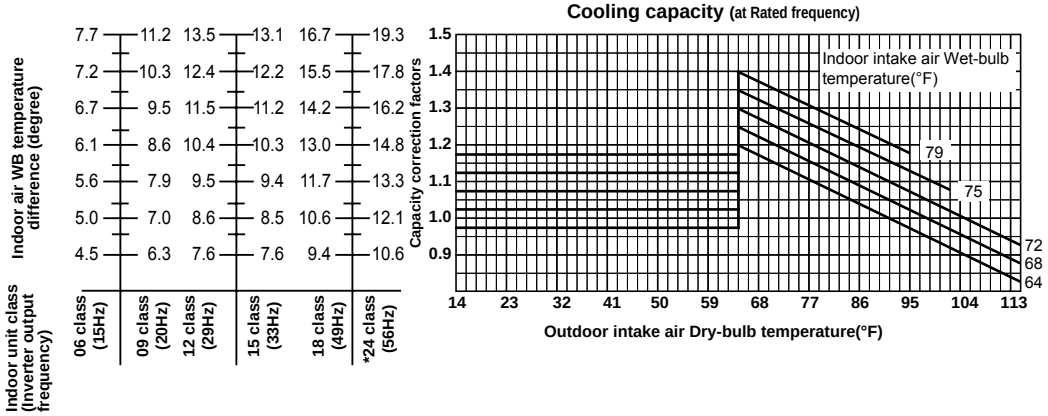


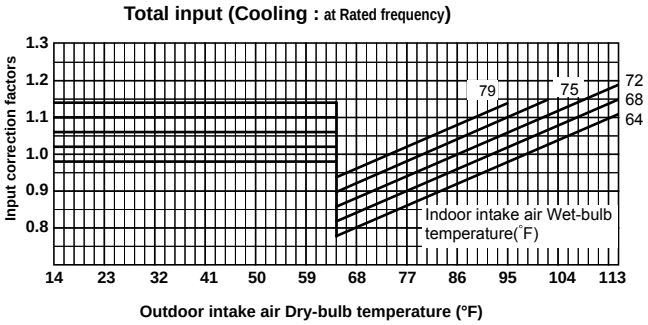

Total input (Cooling : at Rated frequency)
Input correction factors
1.3 1.2 1.1 1.0 0.9 0.8
79
75
72
68
64
Indoor intake air Wet-bulb temperature(°F)
14 23 32 41 50 59 68 77 86 95 104 113
Outdoor intake air Dry-bulb temperature (°F)

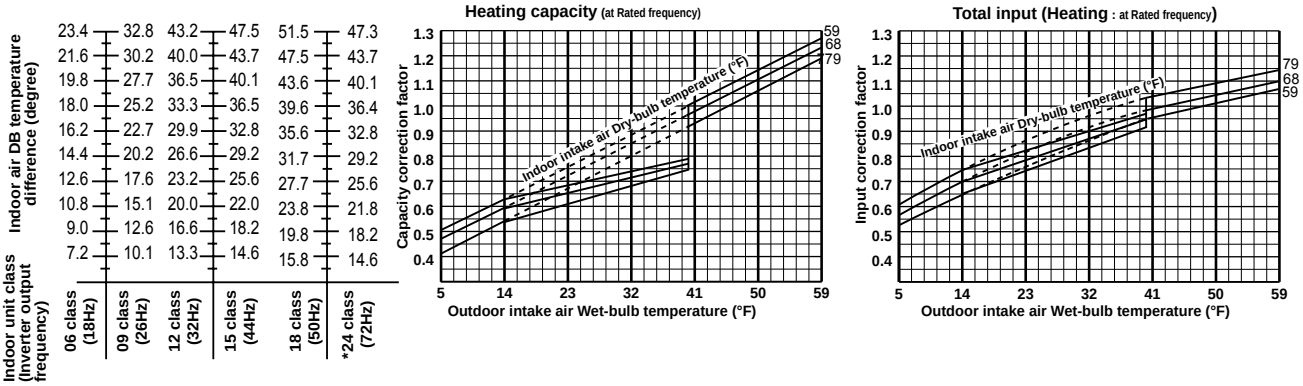

Indoor air DB temperature difference (degree)
Indoor unit class (Inverter output frequency)
06 class (31Hz)
09 class (47Hz)
12 class (59Hz)
15 class (78Hz)
22.1 32.8 40.9 47.5
20.5 30.2 37.6 43.7
18.7 27.7 34.6 40.1
17.1 25.2 31.3 36.5
15.3 22.7 28.3 32.8
13.7 20.2 25.0 29.2
11.9 17.6 22.0 25.6
10.3 15.1 18.9 22.0
8.5 12.6 15.7 18.2
6.8 10.1 12.6 14.6
Heating capacity (at Rated frequency)
Capacity correction factor
1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4
Indoor intake air Dry-bulb temperature (°F)
59
68
79
5 14 23 32 41 50 59
Outdoor intake air Wet-bulb temperature (°F)
Total input (Heating : at Rated frequency)
Input correction factor
1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4
Indoor intake air Dry-bulb temperature (°F)
79
68
59
5 14 23 32 41 50 59
Outdoor intake air Wet-bulb temperature (°F)

NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA


Cooling capacity (at Rated frequency)
Indoor air WB temperature difference (degree)
7.7 11.2 13.5 13.1 16.7 19.3
7.2 10.3 12.4 12.2 15.5 17.8
6.7 9.5 11.5 11.2 14.2 16.2
6.1 8.6 10.4 10.3 13.0 14.8
5.6 7.9 9.5 9.4 11.7 13.3
5.0 7.0 8.6 8.5 10.6 12.1
4.5 6.3 7.6 7.6 9.4 10.6
Indoor unit class (Inverter output frequency)
06 class (15Hz)
09 class (20Hz)
12 class (29Hz)
15 class (33Hz)
18 class (49Hz)
*24 class (56Hz)
Capacity correction factors
1.5 1.4 1.3 1.2 1.1 1.0 0.9
Indoor intake air Wet-bulb temperature(°F)
79
75
72
68
64
14 23 32 41 50 59 68 77 86 95 104 113
Outdoor intake air Dry-bulb temperature(°F)


Total input (Cooling : at Rated frequency)
Input correction factors
1.3 1.2 1.1 1.0 0.9 0.8
79
75
72
68
64
Indoor intake air Wet-bulb temperature(°F)
14 23 32 41 50 59 68 77 86 95 104 113
Outdoor intake air Dry-bulb temperature (°F)

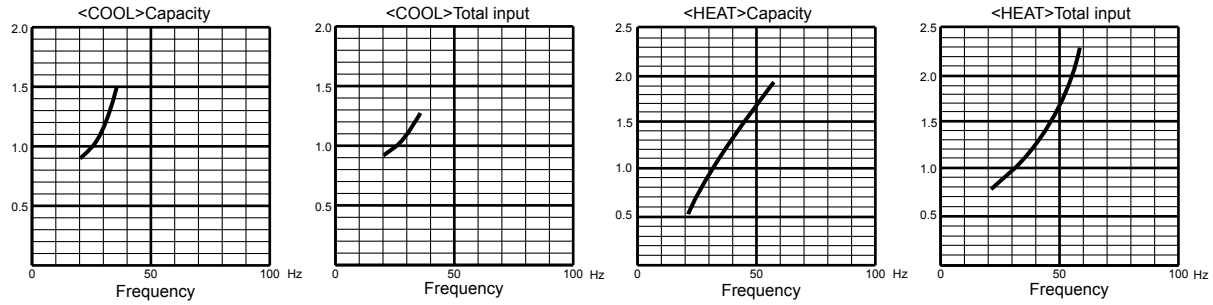

Indoor air DB temperature difference (degree)
23.4 32.8 43.2 47.5 51.5 47.3
21.6 30.2 40.0 43.7 47.5 43.7
19.8 27.7 36.5 40.1 43.6 40.1
18.0 25.2 33.3 36.5 39.6 36.4
16.2 22.7 29.9 32.8 35.6 32.8
14.4 20.2 26.6 29.2 31.7 29.2
12.6 17.6 23.2 25.6 27.7 25.6
10.8 15.1 20.0 22.0 23.8 21.8
9.0 12.6 16.6 18.2 19.8 18.2
7.2 10.1 13.3 14.6 15.8 14.6
Indoor unit class (Inverter output frequency)
06 class (18Hz)
09 class (26Hz)
12 class (32Hz)
15 class (44Hz)
18 class (50Hz)
*24 class (72Hz)
Heating capacity (at Rated frequency)
Capacity correction factor
1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4
59
68
79
Indoor intake air Dry-bulb temperature (°F)
5 14 23 32 41 50 59
Outdoor intake air Wet-bulb temperature (°F)
Total input (Heating : at Rated frequency)
Input correction factor
1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4
79
68
59
Indoor intake air Dry-bulb temperature (°F)
5 14 23 32 41 50 59
Outdoor intake air Wet-bulb temperature (°F)

* MXZ-3B30/4B36NA only

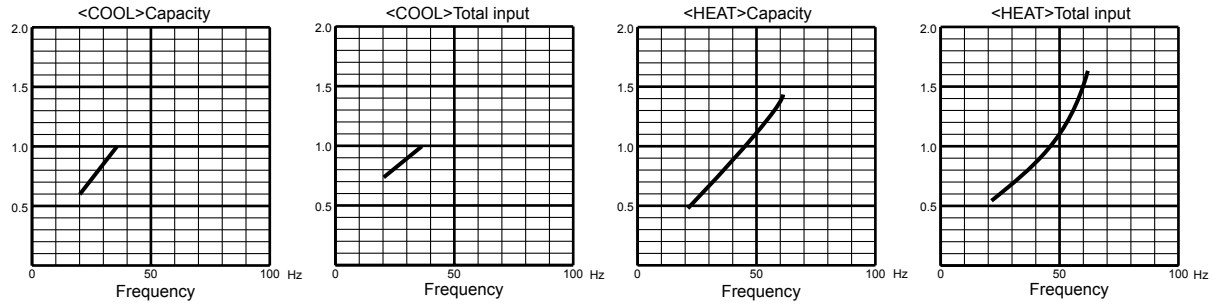
NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

8-3. CAPACITY AND INPUT CORRECTION BY MEANS OF INVERTER OUTPUT FREQUENCY
(OUTDOOR UNIT: MXZ-2B20NA)

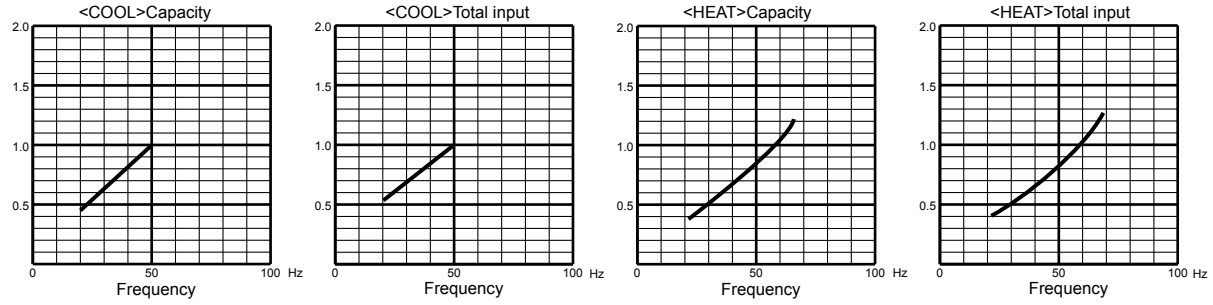
1. 06-class unit in single operation



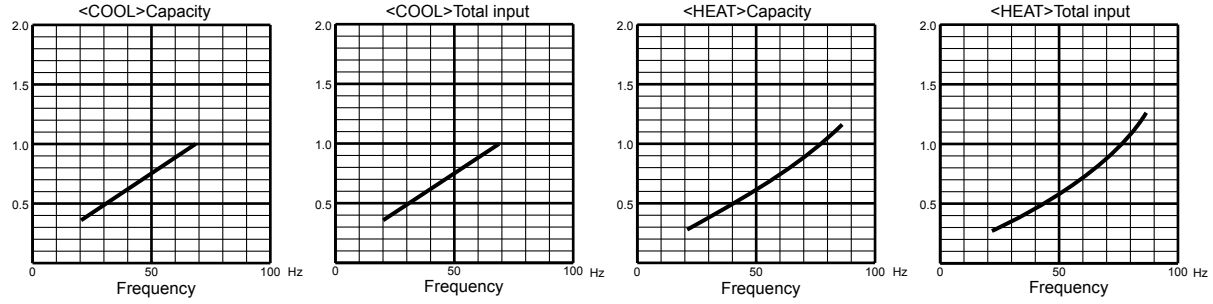
2. 09-class unit in single operation



3. 12-class unit in single operation

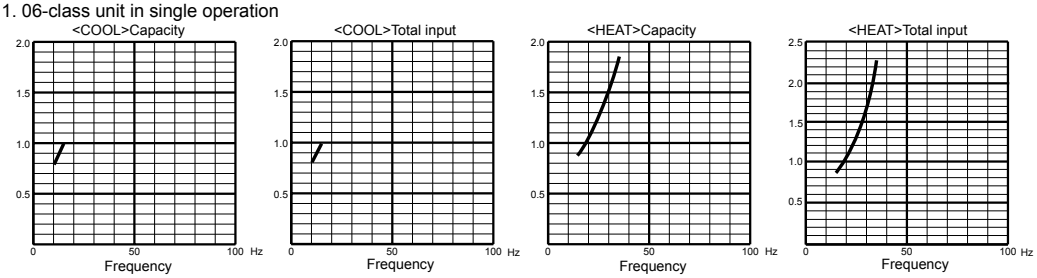


4. 15-class unit in single operation

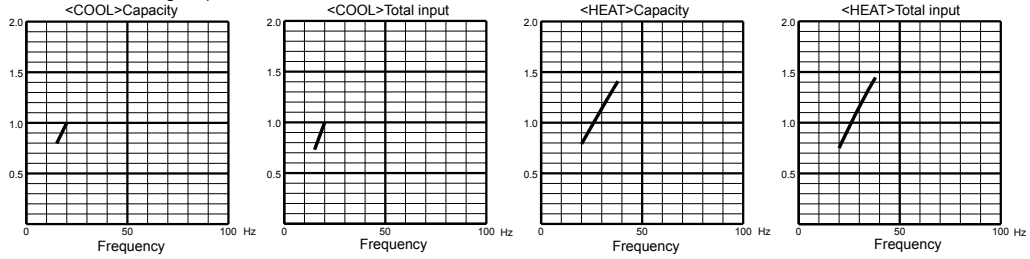


(OUTDOOR UNIT: MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)

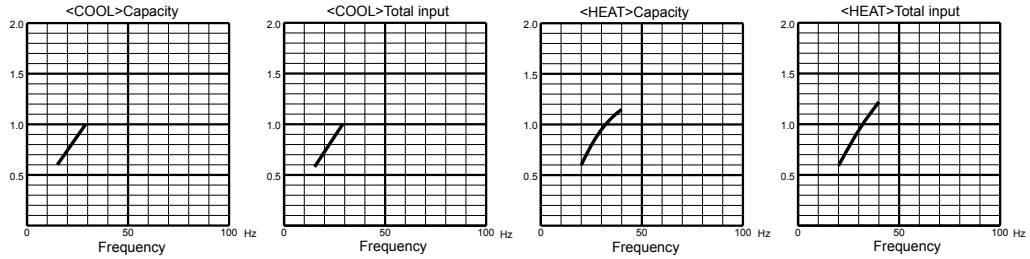
1. 06-class unit in single operation



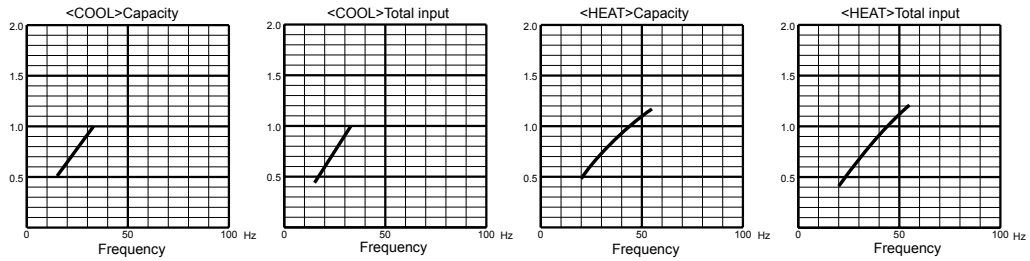
2. 09-class unit in single operation



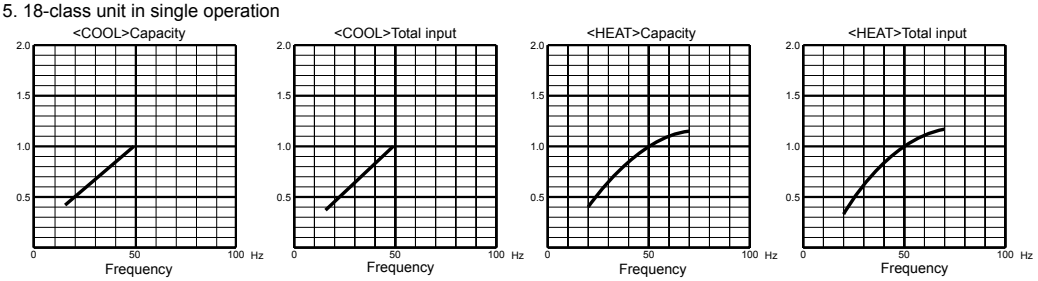
3. 12-class unit in single operation



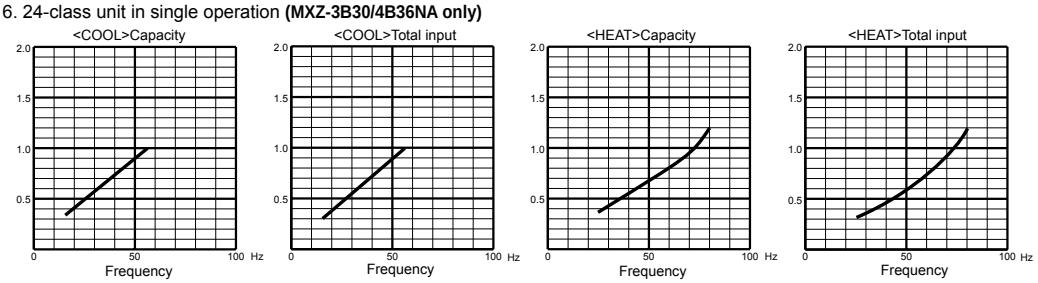
4. 15-class unit in single operation



5. 18-class unit in single operation



6. 24-class unit in single operation **(MXZ-3B30/4B36NA only)**



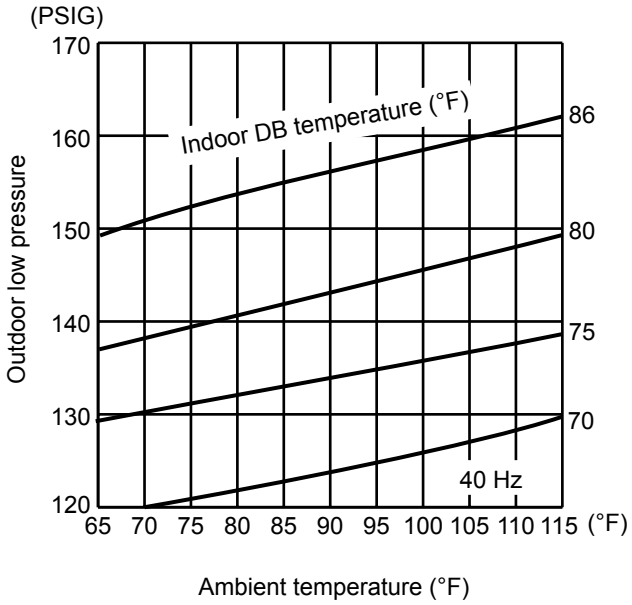
8-4. OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

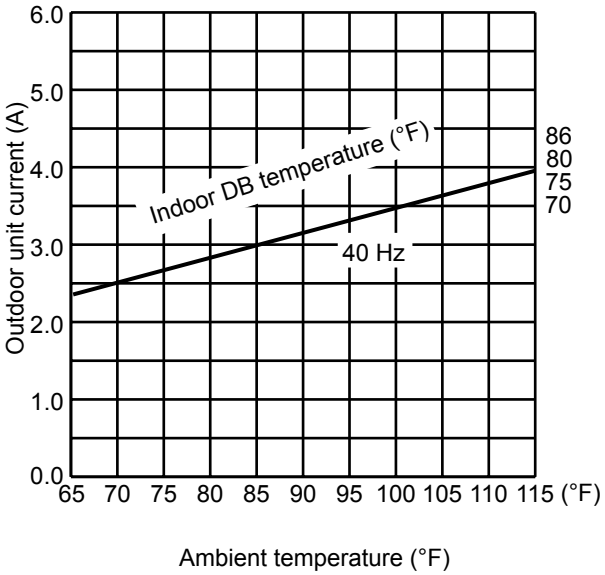
1. 06-class unit in single operation (OUTDOOR UNIT: MXZ-2B20NA)

(1) COOL operation

① Data is based on the condition of indoor humidity 50%
② Air flow speed: High
③ Inverter output frequency: 40 Hz

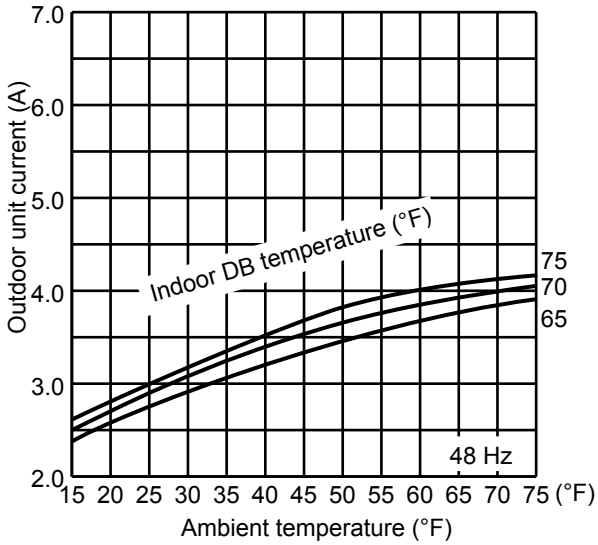
<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.





(2) HEAT operation

① Data is based on the condition of indoor humidity 75%
② Set air flow to High speed.
③ Inverter output frequency is 48 Hz.

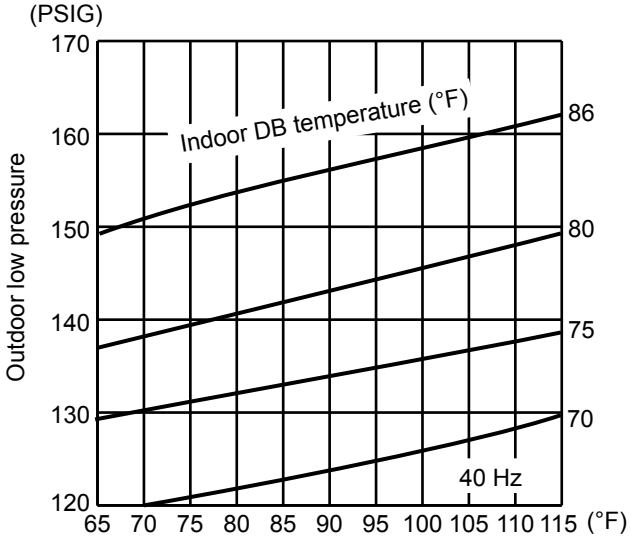


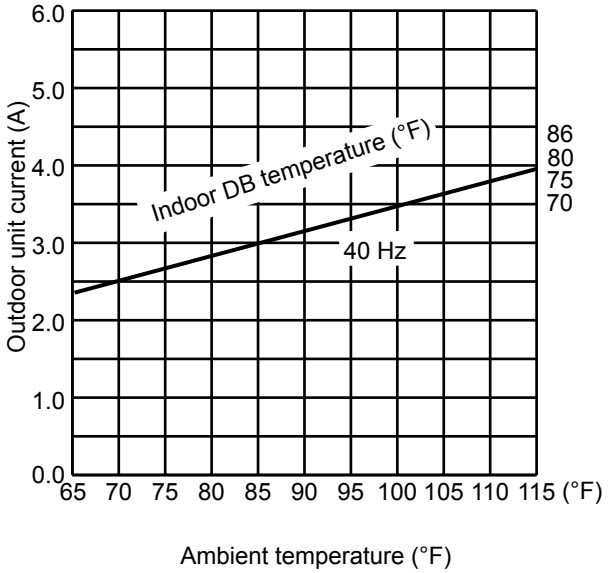
2. 09-class unit in single operation (OUTDOOR UNIT: MXZ-2B20NA)

(1) COOL operation

① Data is based on the condition of indoor humidity 50%
② Air flow speed: High
③ Inverter output frequency: 40 Hz

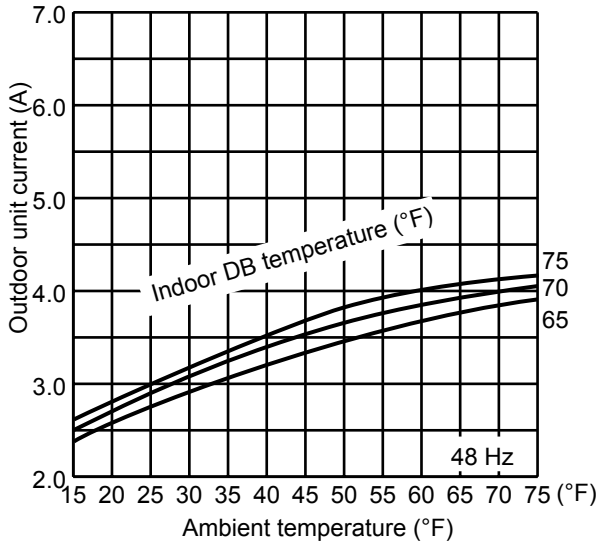
<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.





(2) HEAT operation

① Data is based on the condition of indoor humidity 75%
② Set air flow to High speed.
③ Inverter output frequency is 48 Hz.

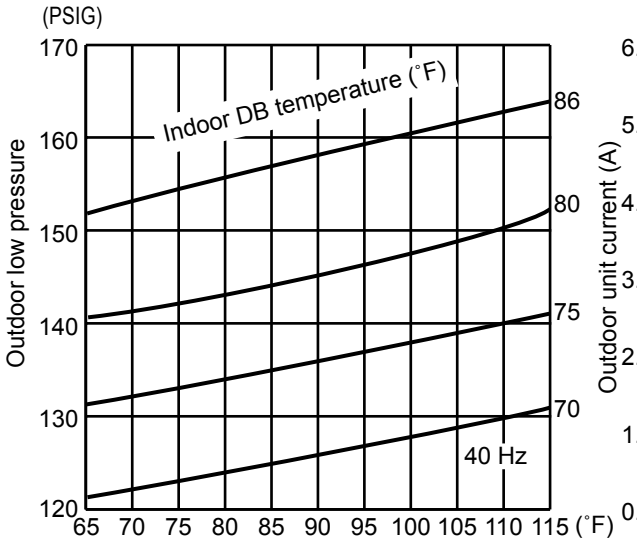


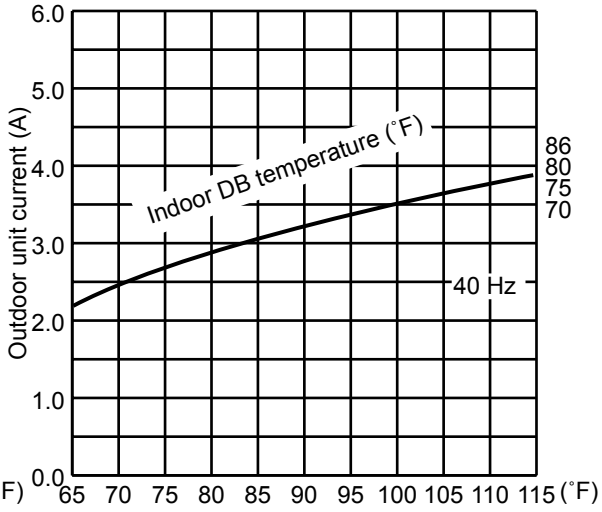
3. 12-class unit in single operation (OUTDOOR UNIT: MXZ-2B20NA)

(1) COOL operation

① Data is based on the condition of indoor humidity 50%
② Air flow speed: High
③ Inverter output frequency: 40 Hz

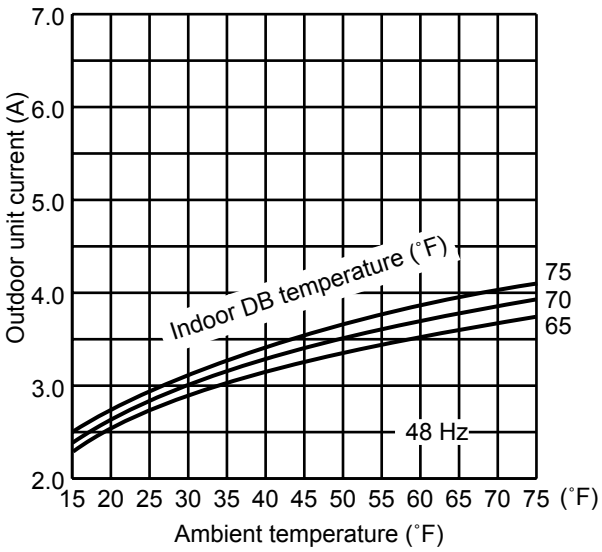
<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.





(2) HEAT operation

① Data is based on the condition of indoor humidity 75%
② Set air flow to High speed.
③ Inverter output frequency is 48 Hz.

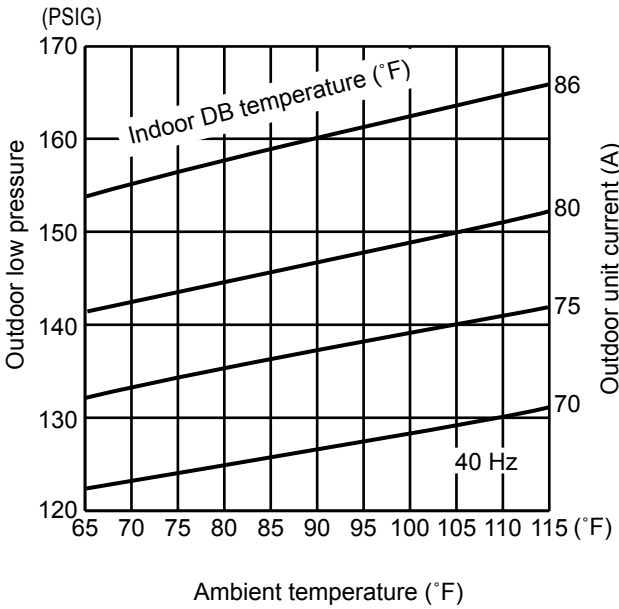


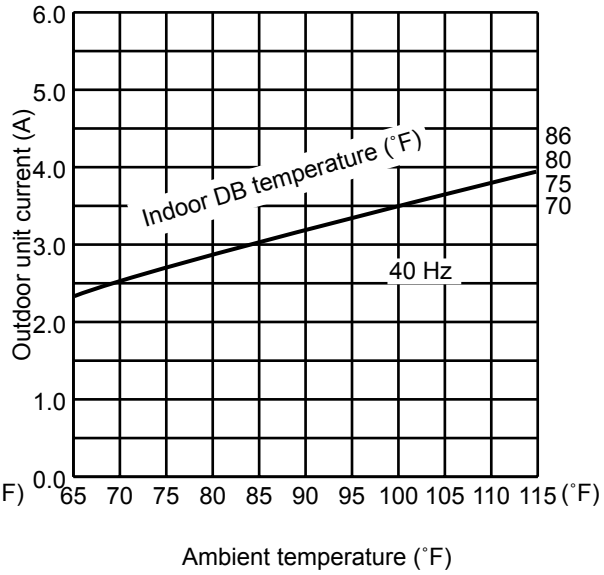
4. 15-class unit in single operation (OUTDOOR UNIT: MXZ-2B20NA)

(1) COOL operation

① Data is based on the condition of indoor humidity 50%
② Air flow speed: High
③ Inverter output frequency: 40 Hz

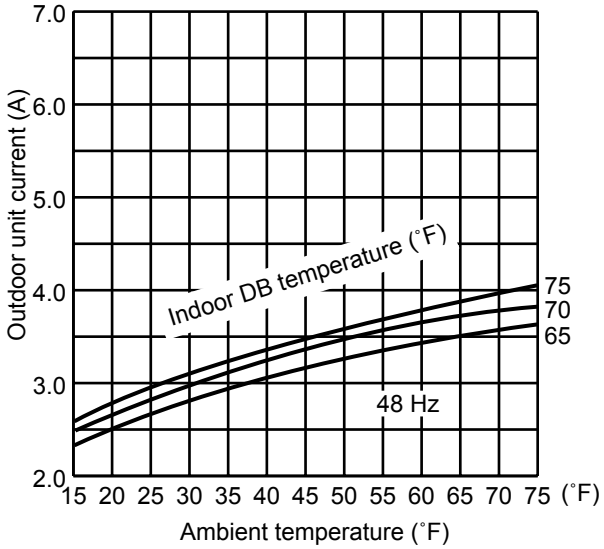
<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.





(2) HEAT operation

① Data is based on the condition of indoor humidity 75%
② Set air flow to High speed.
③ Inverter output frequency is 48 Hz.



5. 06-class unit in single operation (OUTDOOR UNIT : MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)

(1) COOL operation

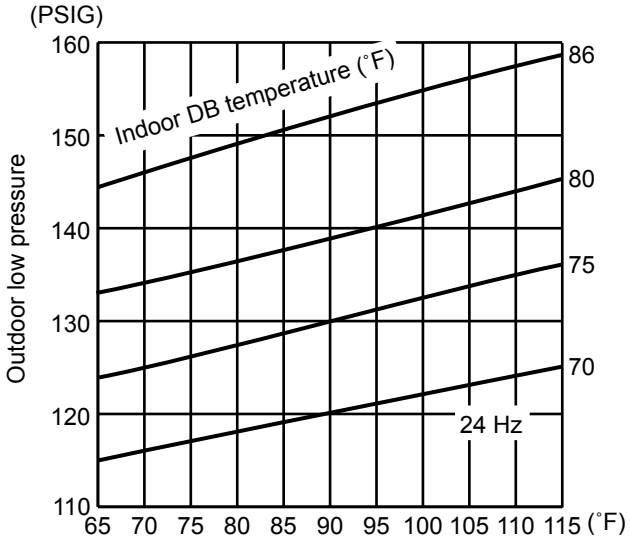
①Data is based on the condition of indoor humidity 50%

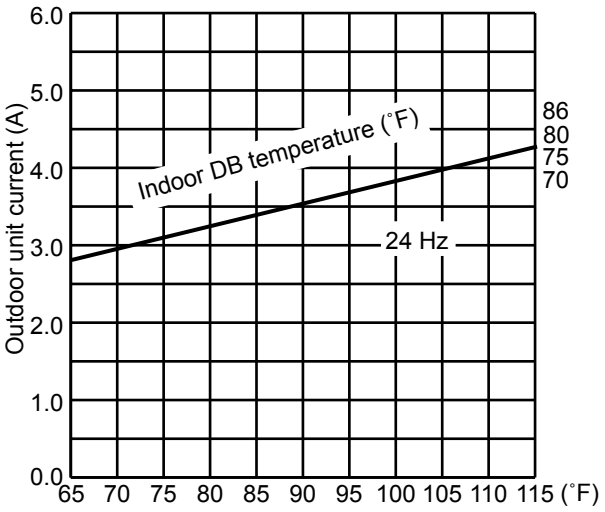
②Air flow speed : High

③Inverter output frequency : 24 Hz

<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



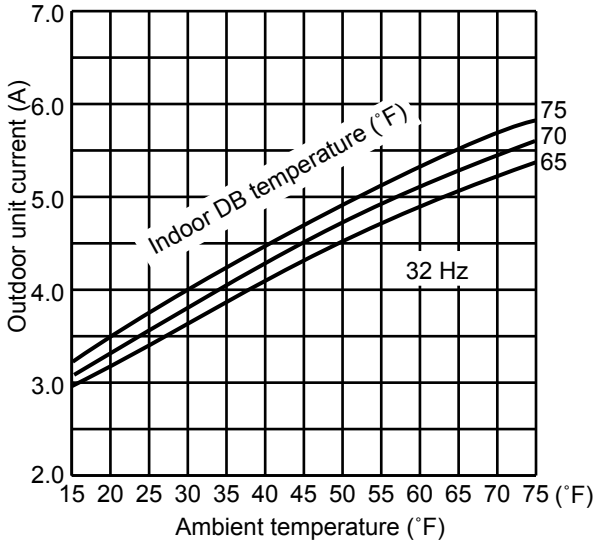


(2) HEAT operation

①Data is based on the condition of outdoor humidity 75%.

②Set air flow to High speed.

③Inverter output frequency is 32 Hz.



6. 09-class unit in single operation (OUTDOOR UNIT : MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)

(1) COOL operation

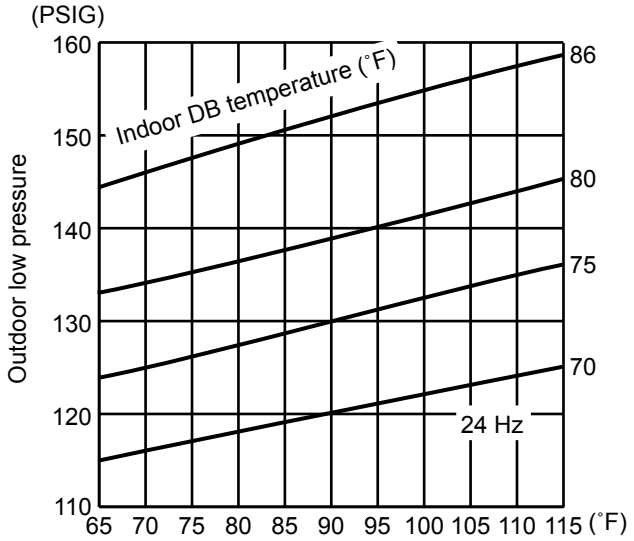
①Data is based on the condition of indoor humidity 50%

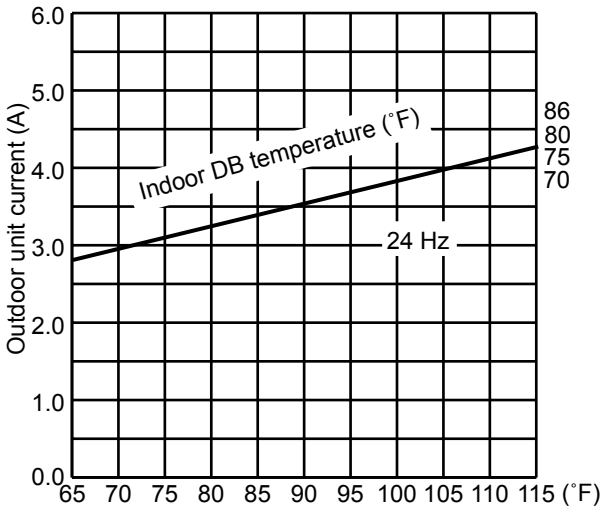
②Air flow speed : High

③Inverter output frequency : 24 Hz

<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



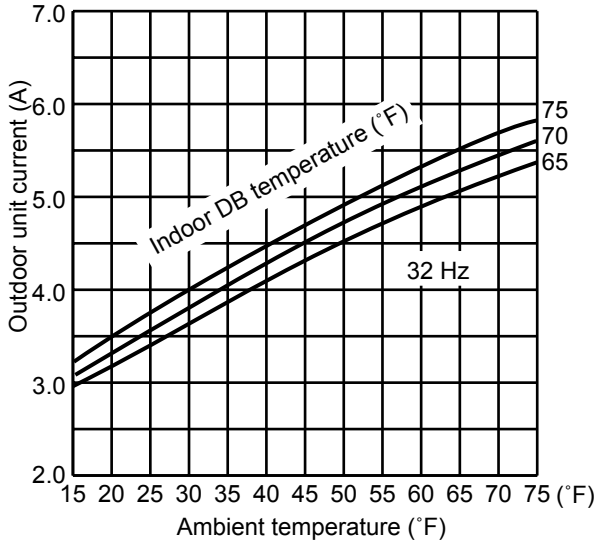


(2) HEAT operation

①Data is based on the condition of outdoor humidity 75%.

②Set air flow to High speed.

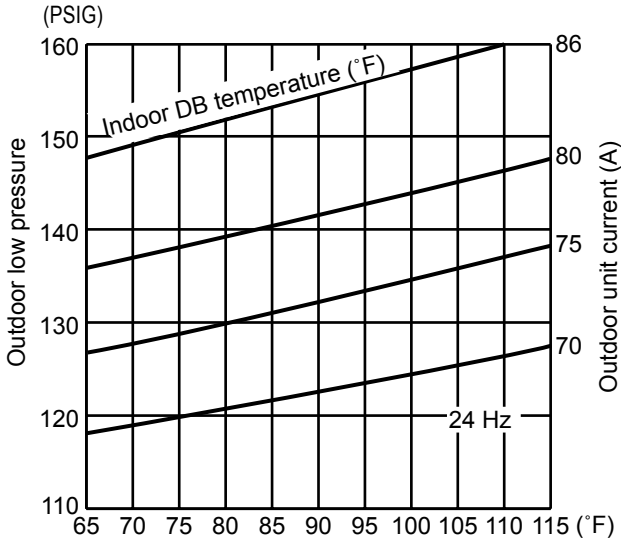
③Inverter output frequency is 32 Hz.



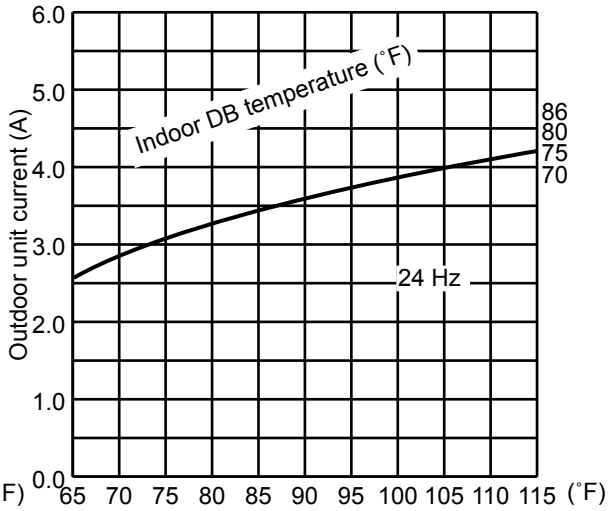
7. 12-class unit in single operation (OUTDOOR UNIT : MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)
(1) COOL operation

①Data is based on the condition of indoor humidity 50%
②Air flow speed : High
③Inverter output frequency : 24 Hz

<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



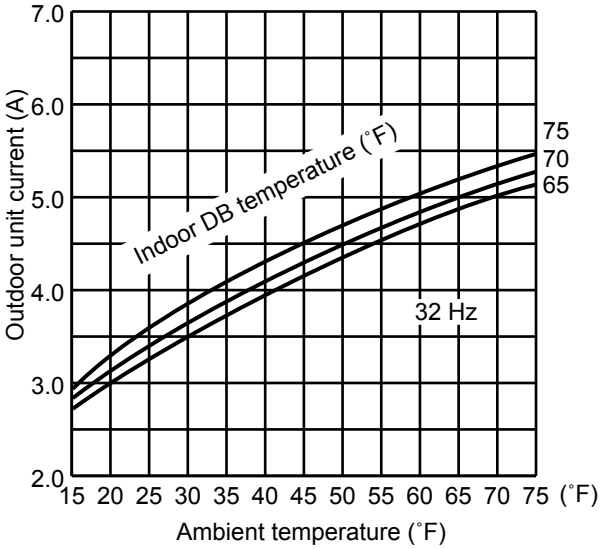
Ambient temperature (˚F)



Ambient temperature (˚F)

(2) HEAT operation

①Data is based on the condition of outdoor humidity 75%.
②Set air flow to High speed.
③Inverter output frequency is 32 Hz.

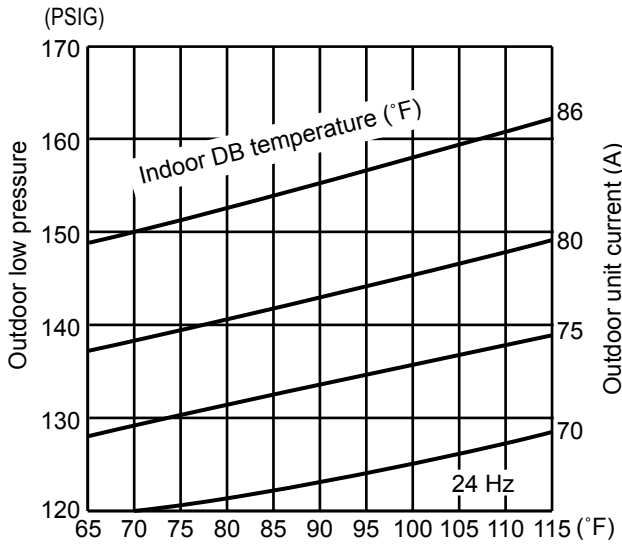


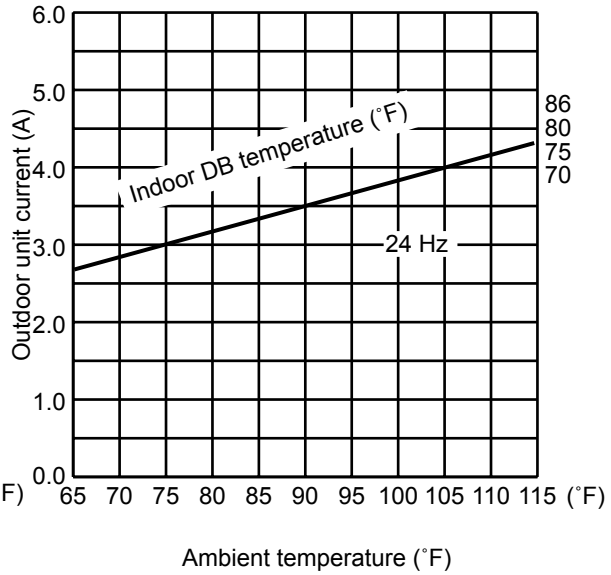
Ambient temperature (˚F)

8. 15-class unit in single operation (OUTDOOR UNIT : MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)
(1) COOL operation

①Data is based on the condition of indoor humidity 50%
②Air flow speed : High
③Inverter output frequency : 24 Hz

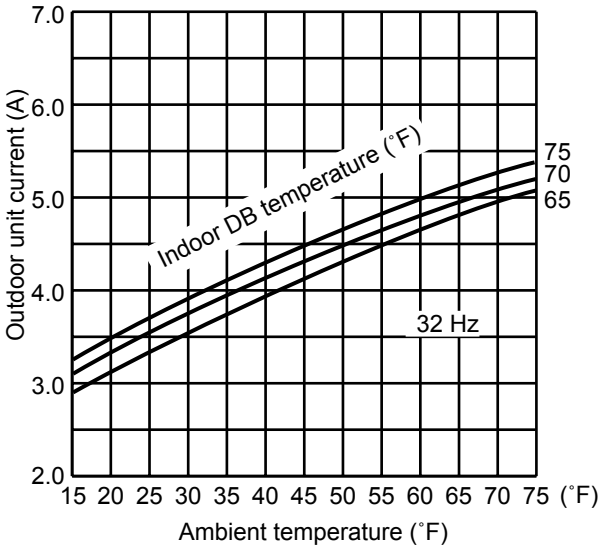
<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.





(2) HEAT operation

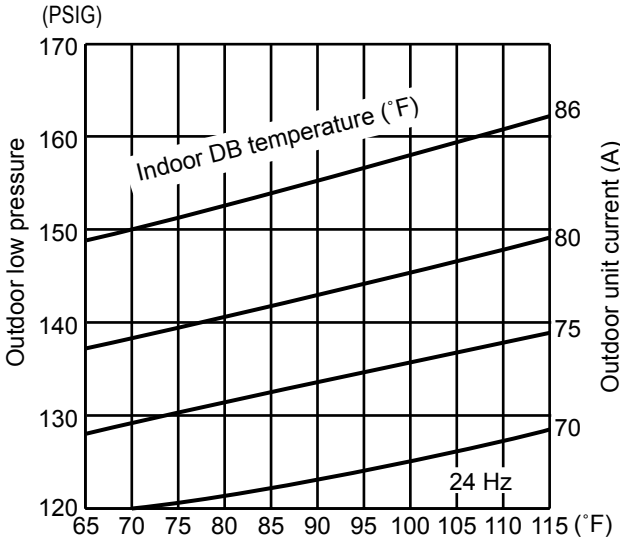
①Data is based on the condition of outdoor humidity 75%
②Set air flow to High speed.
③Inverter output frequency is 32 Hz.



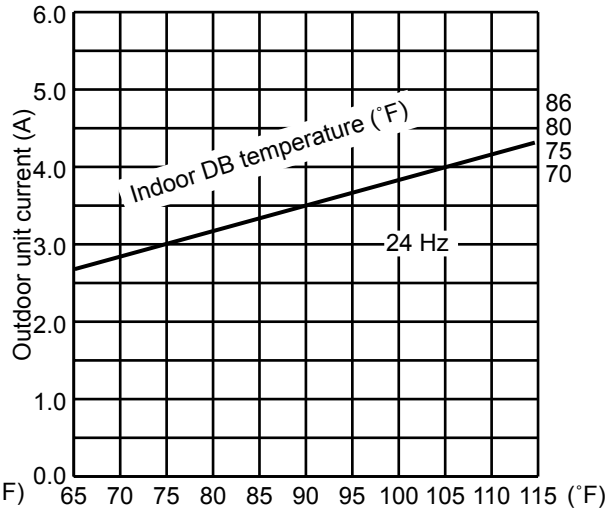
9. 18-class unit in single operation (OUTDOOR UNIT : MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA)
(1) COOL operation

①Data is based on the condition of indoor humidity 50%
②Air flow speed : High
③Inverter output frequency : 24 Hz

<How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



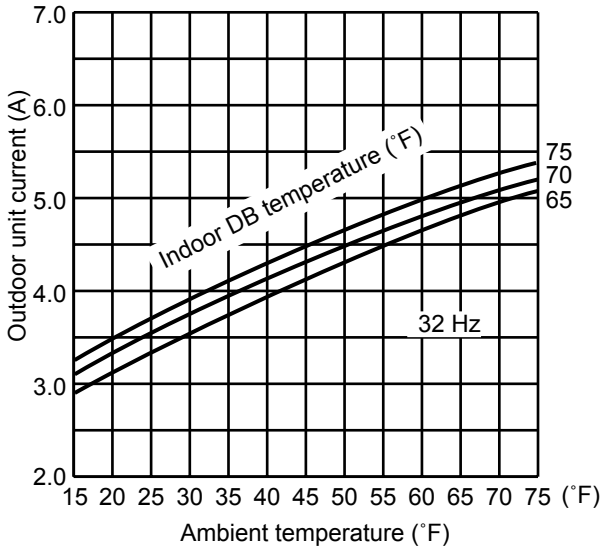
Ambient temperature (˚F)



Ambient temperature (˚F)

(2) HEAT operation

①Data is based on the condition of outdoor humidity 75%.
②Set air flow to High speed.
③Inverter output frequency is 32 Hz.



Ambient temperature (˚F)

10. 24-class unit in single operation (OUTDOOR UNIT : MXZ-4B36NA)

(1) COOL operation

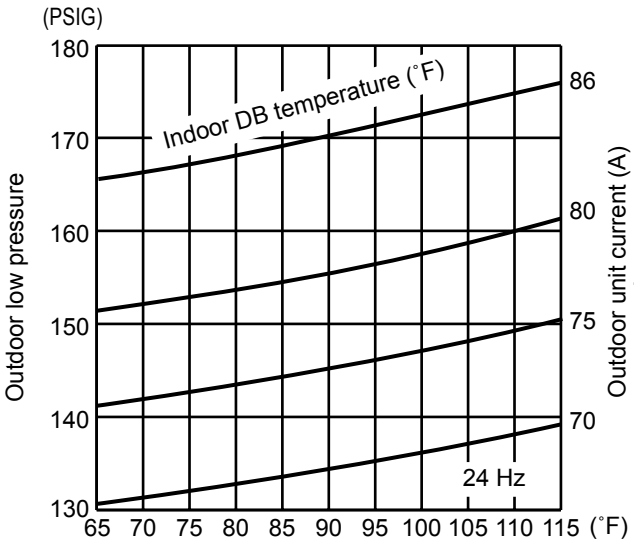
①Data is based on the condition of indoor humidity 50%

②Air flow speed : High

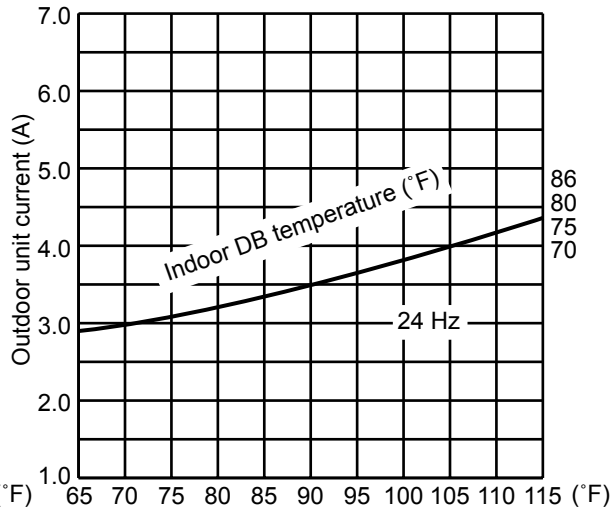
③Inverter output frequency : 24 Hz

<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



Ambient temperature (˚F)



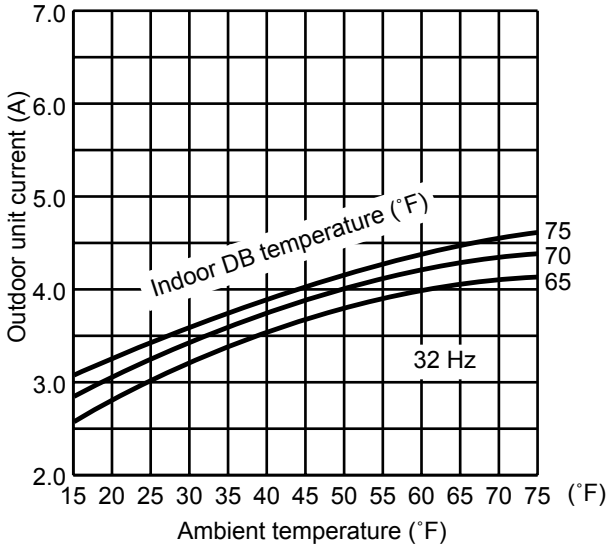
Ambient temperature (˚F)

(2) HEAT operation

①Data is based on the condition of outdoor humidity 75%

②Set air flow to High speed.

③Inverter output frequency is 32 Hz.



Ambient temperature (˚F)

9 ACTUATOR CONTROL

MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

Relation between main sensor and actuator

Sensor	Purpose	Actuator			
		Compressor	LEV	Outdoor fan motor	4-way valve
Discharge temperature thermistor	Protection	○	○		
Indoor coil thermistor	Defrosting Protection	○	○	○	
Defrost thermistor	Defrosting	○	○	○	○
Fin temperature thermistor	Protection	○		○	
Ambient temperature thermistor	Control	○	○	○	
Outdoor heat exchanger temperature	Protection	○	○	○	
Capacity code	Control	○	○		

10 SERVICE FUNCTIONS

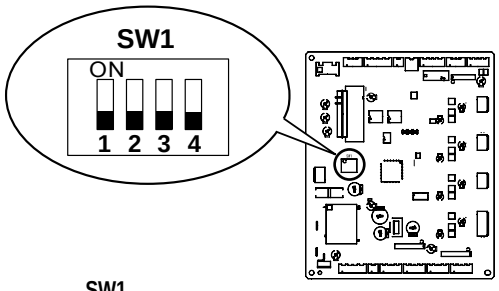
10-1. PRE-HEAT CONTROL

If moisture gets into the refrigerant cycle, or when refrigerant is liquefied and collected in the compressor, it may interfere the start-up of the compressor.
To improve start-up condition, the compressor is energized even while it is not operating.
This is to generate heat at the winding.
The compressor uses about 50 W when pre-heat control is turned ON.
Pre-heat control is ON at initial setting.

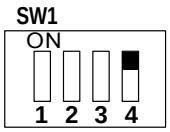
[How to deactivate pre-heat control]

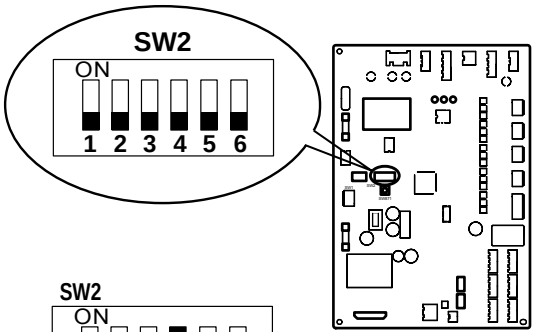
① Turn OFF the power supply for the air conditioner before making the setting.
② Set the 4th Dip Switch of SW1 on the outdoor electronic control P.C. board to ON to deactivate pre-heat control function.

Set the 4th Dip Switch of SW2 on the outdoor electronic control P.C. board to ON to deactivate pre-heat control function **(MXZ-3B24NA, MXZ-3B30NA, MXZ-4B36NA)**.



MXZ-2B20NA





MXZ-3B24NA
MXZ-3B30NA
MXZ-4B36NA

③ Turn ON the power supply for the air conditioner.

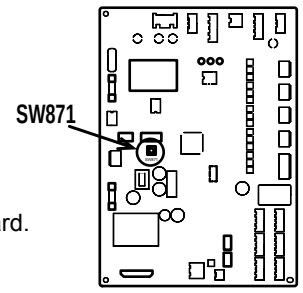
NOTE: Pre-heat control will be turned OFF when the breaker is turned OFF.

10-2. AUTO LINE CORRECTING <MXZ-3B24NA, MXZ-3B30NA, MXZ-4B36NA>

Outdoor unit has an auto line correcting function which automatically detects and corrects improper wiring or piping.

Improper wiring or piping can be automatically detected by pressing the piping/wiring correction switch (SW871).
When improper wiring or piping is detected, wiring lines are corrected.
This will be completed in about 10 to 15 minutes.

[How to activate this function]



1. Check that outside temperature is above 32˚F.
   (This function does not work when outside temperature is not above 32˚F.)
2. Check that the stop valves of the liquid pipe and gas pipe are open.
3. Check that the wiring between indoor and outdoor unit is correct.
   (If the wiring is not correct, this function does not work.)
4. Turn ON the power supply and wait at least 1 minute.
5. Press the piping/wiring correction switch (SW871) on the electronic control P.C. board.
   Do not touch energized parts.

   LED indication during detection:

LED1 (Red)	LED2 (Yellow)	LED3 (Green)
Lighting	Lighting	Blinking

   LED indication after detection:

LED1 (Red)	LED2 (Yellow)	LED3 (Green)	Indication
Lighting	Goes out	Lighting	Completed (Detected successfully)
Blinking	Blinking	Blinking	Cannot be corrected
Other indications			Refer to "SAFETY PRECAUTIONS WHEN LED FLASHES" located behind the service panel.

   ※ Make sure that the valves are open and the pipes are not collapsed or clogged.
6. Press the switch to cancel.

   LED indication after cancel :

LED1 (Red)	LED2 (Yellow)	LED3 (Green)
Lighting	Lighting	Goes out

NOTE : Indoor unit cannot be operated while this function is activated.
When this function is activated while indoor unit is operating, the operation will be stopped.
Operate indoor unit after the auto line correcting is finished.
Pressing the switch during detection cancels this function.

The record of auto line correcting can be confirmed in the following way:

Press the switch for more than 5 seconds.
LED will show the record of auto correcting for about 30 seconds as shown in the table below:

Number of blinks			Wiring line
LED1 (Red)	LED2 (Yellow)	LED3 (Green)	
Once	Once	Lighting	Not corrected
3 times	3 times	Lighting	Corrected

NOTE : Activate this function to confirm the correct wiring after replacing the electronic control P.C. board.
(Previous records are deleted when the electronic control P.C. board is replaced.)
The record cannot be shown if auto line correcting is not canceled (Refer to "How to activate this function").

11 TROUBLESHOOTING

MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

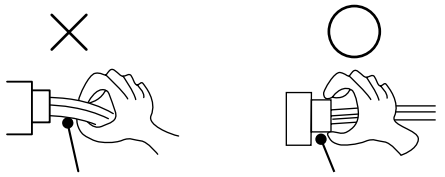
11-1. CAUTIONS ON TROUBLESHOOTING

1. Before troubleshooting, check the following:

1) Check the power supply voltage.
2) Check the indoor/outdoor connecting wire for mis-wiring.

2. Take care of the following during servicing.

1) Before servicing the air conditioner, be sure to turn off the unit first with the remote controller, and then after confirming the horizontal vane is closed, turn off the breaker and/or disconnect the power plug.
2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the electronic control P.C. board.
3) When removing the electrical parts, be careful of the residual voltage of smoothing capacitor.
4) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
5) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.



Lead wiring **Housing point**

3. Troubleshooting procedure

1) First, check if the OPERATION INDICATOR lamp on the indoor unit is flashing on and off to indicate an abnormality. To make sure, check how many times the abnormality indication is flashing on and off before starting service work.
2) If the electronic control P.C. board seems to be defective, check the copper foil pattern for disconnection and the components for bursting and discoloration.
3) When troubleshooting, refer to 11-2, 11-3 and 11-4.

11-2. FAILURE MODE RECALL FUNCTION

This air conditioner can memorize the abnormal condition which has occurred once.
Even though LED indication listed on the troubleshooting check table (11-4.) disappears, the memorized failure details can be recalled.
This mode is very useful when the unit needs to be repaired for the abnormality which does not recur.

1. Type of failure mode recall function

There are 2 types in failure mode recall function as shown below.

①Indoor and outdoor unit failure mode recall function
With this function, failure mode of indoor unit and a part of failure mode of outdoor unit can be recalled.

②The details of outdoor unit failure mode recall function
With this function, more detailed failure mode of outdoor unit can be recalled.

Refer to the service manual of indoor unit for how to recall the failure mode and the details of indoor unit failure mode.
The outdoor unit failure mode is indicated by the operation indicator lamp on the indoor unit and the LED of outdoor unit.
See "11-2.2. Outdoor unit failure mode table".

2. Outdoor unit failure mode table

The left lamp of OPERATION INDICATOR lamp (Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board)		Condition	Remedy	Indoor/outdoor unit failure mode recall function
		LED 1	LED 2			
OFF	None (Normal)	Lighting	Lighting	———	———	———
2-time flash	Outdoor power system	Lighting	Lighting	When overcurrent protection stop is continuously performed three times within 1 minute after the compressor gets started, or when converter protection stop or bus-bar voltage protection stop is continuously performed three times within 3 minutes after start-up.	• Check the connection of the compressor connecting wire. • Refer to 11-6.Ⓔ "How to check inverter/compressor". • Check the stop valve.	○
3-time flash	Discharge temperature thermistor	Lighting	Once	When thermistor shorts or opens during compressor running.	• Refer to 11-6.Ⓕ "Check of outdoor thermistors".	○
	Defrost thermistor	Lighting	Once			
	Ambient temperature thermistor	Lighting	Twice			
	Fin temperature thermistor	Lighting	3 times			
	P.C. board temperature thermistor	Lighting	4 times		• Replace the outdoor electronic control P.C. board.	
	Outdoor heat exchanger temperature thermistor	Lighting	9 times		• Refer to 11-6.Ⓕ "Check of outdoor thermistors".	
4-time flash	Overcurrent	Once	Goes out	When 28A current flows into intelligent power module.	• Reconnect compressor connector. • Refer to 11-6.Ⓔ"How to check inverter/ compressor". • Check the stop valve.	———
5-time flash	Discharge temperature	Lighting	Lighting	When discharge temperature exceeds 240.8°F during operation. Compressor can restart if discharge temperature thermistor reads 212°F or less 3 minutes later.	•Check refrigerant circuit and refrigerant amount. • Refer to 11-6.Ⓓ "Check of LEV".	———
6-time flash	High pressure	Lighting	Lighting	When the outdoor heat exchanger temperature exceeds 158°F during cooling or the indoor gas pipe temperature exceeds 158°F during heating.	•Check refrigerant circuit and refrigerant amount. • Check the stop valve.	———
7-time flash	Fin temperature	3 times	Goes out	When the fin temperature exceeds 188.6°F during operation.	• Check around outdoor unit. • Check outdoor unit air passage. • Refer to 11-6.Ⓖ"Check of outdoor fan motor".	———
	P.C. board temperature	4 times	Goes out	When the P.C. board temperature exceeds 158°F during operation.		
8-time flash	Outdoor fan motor	Lighting	Lighting	When failure occurs continuously three times within 30 seconds after the fan gets started.	• Refer to 11-6.Ⓖ"Check of outdoor fan motor".	———
9-time flash	Nonvolatile memory data	Lighting	5 times	When nonvolatile memory data cannot be read properly.	• Replace the outdoor electronic control P.C. board.	○
10-time flash	Discharge temperature	Lighting	Lighting	When the frequency of the compressor is kept 80Hz or more and the discharge temperature is kept under 102.2°F for more than 20 minutes.	•Check refrigerant circuit and refrigerant amount. • Refer to 11-6.Ⓓ"Check of LEV".	———

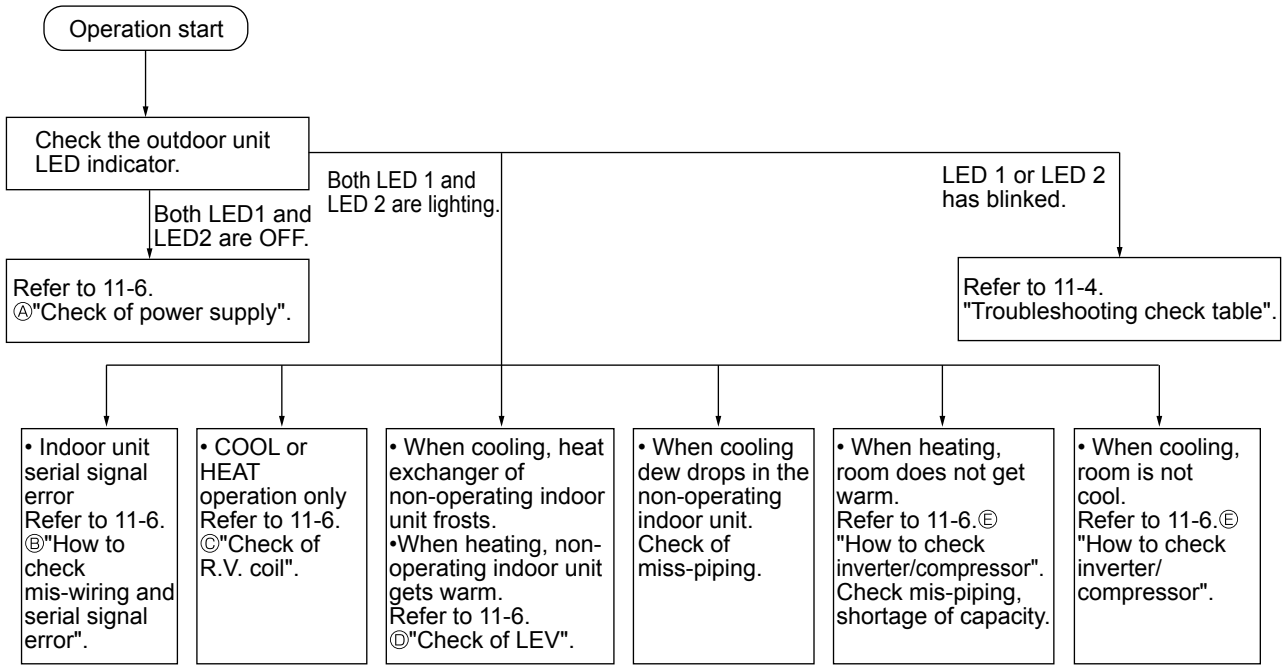
NOTE: Blinking patterns of this mode differ from the ones of Troubleshooting check table (11-4.).

The left lamp of OPERATION INDICATOR lamp(Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board) LED 1	LED 2	Condition	Remedy	Indoor/outdoor unit failure mode recall function
11-time flash	Communication error between P.C. boards	Lighting	6 times	Communication error occurs between the electronic control P.C. board and power board for more than 10 seconds.	• Check the connecting wire between outdoor electronic control P.C. board and power board.	——
				When the communication between boards protection stop is continuously performed twice.		○
	Current sensor	Lighting	7 times	When a short or open circuit is detected in the current sensor during compressor operating.	• Replace the power board.	——
				Current sensor protection stop is continuously performed twice.		○
	Zero cross detecting circuit	5 times	Goes out	When zero cross signal cannot be detected while the compressor is operating.	• Check the connecting wire among electronic control P.C. board, noise filter P.C. board and power board.	——
				The protection stop of the zero cross detecting circuit is continuously performed 10 times.		○
	Converter	5 times	Goes out	When a failure is detected in the operation of the converter during operation.	• Check the voltage of power supply. • Replace the power board.	——
	Bus-bar voltage (1)	5 times	Goes out	When the bus-bar voltage exceeds 400V or falls to 200V or below during compressor operating.		
	Bus-bar voltage (2) ※Even if this protection stop is performed continuously three times, it does not mean the abnormality in outdoor power system.	6 times	Goes out	When the bus-bar voltage exceeds 400V or falls to 50V or below during compressor operating.	• Check the voltage of power supply. • Replace the outdoor electronic control P.C. board.	
15-time flash	LEV for drain	Lighting	Lighting	When the indoor unit detects any abnormal in the LEV for drain.	• Refer to 11-6.Ⓓ "Check of LEV". • Check the drain pump of the indoor unit.	——

NOTE: Blinking patterns of this mode differ from the ones of Troubleshooting check table (11-4.).

11-3. INSTRUCTION OF TROUBLESHOOTING

• Check the indoor unit with referring to the indoor unit service manual, and confirm that there is any problem in the indoor unit.
Then, check the outdoor unit with referring to this page.

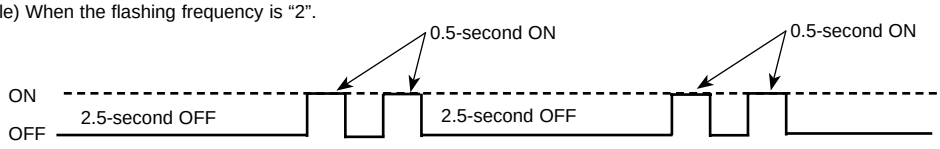

Operation start
Check the outdoor unit LED indicator.
Both LED1 and LED2 are OFF.
Refer to 11-6. Ⓐ"Check of power supply".
Both LED 1 and LED 2 are lighting.
LED 1 or LED 2 has blinked.
Refer to 11-4. "Troubleshooting check table".
• Indoor unit serial signal error Refer to 11-6. Ⓑ"How to check mis-wiring and serial signal error".
• COOL or HEAT operation only Refer to 11-6. Ⓒ"Check of R.V. coil".
• When cooling, heat exchanger of non-operating indoor unit frosts.
•When heating, non-operating indoor unit gets warm.
Refer to 11-6. Ⓓ"Check of LEV".
• When cooling dew drops in the non-operating indoor unit. Check of miss-piping.
• When heating, room does not get warm. Refer to 11-6.Ⓔ "How to check inverter/compressor". Check mis-piping, shortage of capacity.
• When cooling, room is not cool. Refer to 11-6.Ⓔ "How to check inverter/ compressor".

11-4. TROUBLESHOOTING CHECK TABLE

No.	Symptom	Indication		Abnormal point / Condition	Condition	Correspondence
		LED1(Red)	LED2(Yellow)			
1	Outdoor unit does not operate.	Lighting	Once	LEV for drain	When the indoor unit detects any abnormality in the LEV for drain.	• Refer to 11-6.Ⓓ "Check of LEV". • Check the drain pump of the indoor unit.
2		Lighting	Twice	Outdoor power system	When over current protection stop is continuously performed three times within 1 minute after the compressor gets started, or when converter protection stop or bus-bar voltage protection stop is continuously performed three times within 3 minutes after start-up.	• Check the connection of the compressor connecting wire. • Refer to 11-6.Ⓔ "How to check inverter/compressor". • Check the stop valve.
3		Lighting	3 times	Discharge temperature thermistor	When a short circuit is detected in the thermistor during operation, or when an open circuit is detected in the thermistor after 10 minutes of compressor start-up.	• Refer to 11-6.Ⓕ "Check of outdoor thermistors".
4		Lighting	4 times	Fin temperature thermistor	When a short or open circuit is detected in the thermistor during operation.	• Refer to 11-6.Ⓕ "Check of outdoor thermistors".
				P.C board temperature thermistor		• Replace the outdoor electronic control P.C. board.
5		Lighting	5 times	Ambient temperature thermistor	When a short or open circuit is detected in the thermistor during operation.	• Refer to 11-6.Ⓕ "Check of outdoor thermistors".
				Outdoor heat exchanger temperature thermistor	When a short circuit is detected in the thermistor during operation, or when an open circuit is detected in the thermistor after 5 minutes (in cooling) and 10 minutes (in heating) of compressor start-up.	
				Defrost thermistor	When a short circuit is detected in the thermistor during operation, or when an open circuit is detected in the thermistor after 5 minutes of compressor start-up.	
6		Lighting	7 times	Nonvolatile memory data	When the nonvolatile memory data cannot be read properly.	• Replace the outdoor electronic control P.C. board.
7		Lighting	8 times	Current sensor	Current sensor protection stop is continuously performed twice.	• Replace the power board.
8		Lighting	11 times	Communication error between P.C. boards	When the communication protection stop between boards is continuously performed twice.	• Check the connecting wire between outdoor electronic control P.C. board and power board.
9		Lighting	12 times	Zero cross detecting circuit	The protection stop of the zero cross detecting circuit is continuously performed 10 times.	• Check the connecting wire among outdoor electronic control P.C. board, noise filter P.C. board and power board.
10	'Outdoor unit stops and restarts 3 minutes later' is repeated.	Twice	Goes out	IPM protection	When overcurrent is detected after 30 minutes of compressor start-up.	• Reconnect compressor connector. • Refer to 11-6.Ⓔ "How to check inverter/compressor". • Check the stop valve. • Check the power module (PAM module).
				Lock protection	When overcurrent is detected within 30 minutes of compressor start-up	
11		3 times	Goes out	Discharge temperature protection	When discharge temperature exceeds 240.8°F during operation. Compressor can restart if discharge temperature thermistor reads 212°F or less 3 minutes later.	• Check the amount of gas and refrigerant circuit. • Refer to 11-6.Ⓓ "Check of LEV".
12		4 times	Goes out	Fin temperature protection	When the fin temperature exceeds 188.6°F during operation.	•Check refrigerant circuit and refrigerant amount. •Refer to 11-6.Ⓖ "Check of outdoor fan motor".
				P.C. board temperature protection	When the P.C. board temperature exceeds 158°F during operation.	
13		5 times	Goes out	High-pressure protection	When high-pressure is detected with the high-pressure switch (HPS) during operation. **(MXZ-3B24NA, MXZ-3B30NA, MXZ-4B36NA)**	• Check around of gas and the refrigerant circuit. • Check of stop valve.
					When the outdoor heat exchanger temperature exceeds 158°F during cooling or when indoor gas pipe temperature exceeds 158°F during heating.	
14		8 times	Goes out	Converter protection	When a failure is detected in the operation of the converter during operation.	• Replace the power board.
15		9 times	Goes out	Bus-bar voltage protection (1)	When the bus-bar voltage exceeds 400V or falls to 200V or below during compressor operating.	• Check the voltage of power supply. • Replace the power board or the outdoor electronic control P.C. board. • Refer to 11-6. Ⓙ "Check of bus-bar voltage".
				Bus-bar voltage protection (2)	When the bus-bar voltage exceeds 400V or falls to 50V or below during compressor operating.	
16		13 times	Goes out	Outdoor fan motor	When failure occurs continuously three times within 30 seconds after the fan gets started.	• Refer to 11-6.Ⓖ "Check of outdoor fan motor".
17		Lighting	8 times	Current sensor protection	When a short or open circuit is detected in the current sensor during compressor operating.	• Replace the power board.
18		Lighting	11 times	Communication between P.C. boards protection	Communication error occurs between the outdoor electronic control P.C. board and power board for more than 10 seconds.	• Check the connecting wire between outdoor electronic control P.C. board and power board.
19		Lighting	12 times	Zero cross detecting circuit protection	When zero cross signal cannot be detected while the compressor is operating.	• Check the connecting wire among outdoor electronic control P.C. board, noise filter P.C. board and power board.

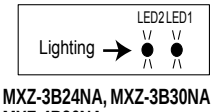
NOTE 1. The location of LED is illustrated at the right figure. Refer to 11-7.1.
2. LED is lighted during normal operation.

The flashing frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the flashing frequency is "2".

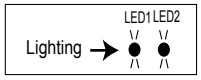


Outdoor electronic control P.C. board (Parts side)

MXZ-2B20NA



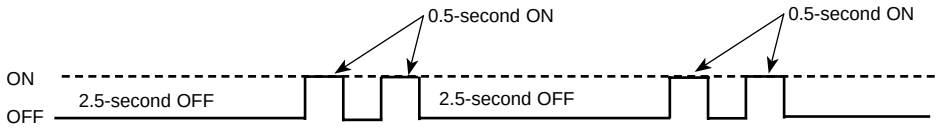
MXZ-3B24NA, MXZ-3B30NA
MXZ-4B36NA



No.	Symptom	Indication		Abnormal point / Condition	Condition	Remedy
		LED1(Red)	LED2(Yellow)			
21	Outdoor unit operates.	Once	Lighting	Primary current protection	When the input current exceeds 15A.	These symptoms do not mean any abnormality of the product, but check the following points. • Check if indoor filters are clogged. • Check if refrigerant is short. • Check if indoor/outdoor unit air circulation is short cycled.
				Secondary current protection	When the current of the compressor exceeds 15A.	
22		Twice	Lighting	High-pressure protection	When the indoor gas pipe temperature exceeds 113°F during heating.	
				Defrosting in cooling	When the indoor gas pipe temperature falls 37.4°F or below during cooling.	
23		3 times	Lighting	Discharge temperature protection	When the frequency of the compressor is kept 80Hz or more and the discharge temperature is kept under 122°F(COOL mode) /104°F(HEAT mode) for more than 40 minutes.	• Check refrigerant circuit and refrigerant amount. • Refer t1 11-6.Ⓓ "Check of LEV". • Refer to 11-6.Ⓕ "Check of outdoor thermistors".
24		4 times	Lighting	Low discharge temperature protection	When the frequency of the compressor is kept 80Hz or more and the discharge temperature is kept under 102.2°F for more than 20 minutes.	• Refer to 11-6.Ⓓ "Check of LEV". • Check refrigerant circuit and refrigerant amount.
25		5 times	Lighting	Cooling high-pressure protection	When the outdoor heat exchanger temperature exceeds 136.4°F during operation.	This symptom does not mean any abnormality of the product, but check the following points. • Check if indoor filters are clogged. • Check if refrigerant is short. • Check if indoor/outdoor unit air circulation is short cycled.
26	Outdoor unit operates normally.	9 times	Lighting	Inverter check mode	When the unit is operated with emergency operation switch.	–
27		Lighting	Lighting	Normal	–	–

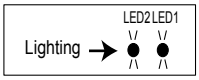
NOTE 1. The location of LED is illustrated at the right figure. Refer to 11-7.1.
2. LED is lighted during normal operation.

The flashing frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the flashing frequency is “2”.

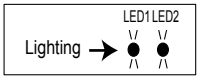


Outdoor electronic control P.C. board(Parts side)

MXZ-2B20NA



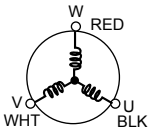
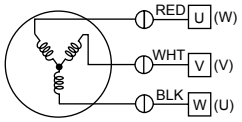
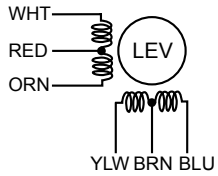
MXZ-3B24NA, MXZ-3B30NA
MXZ-4B36NA

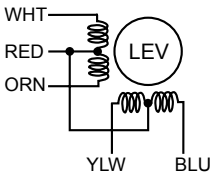


11-5. TROUBLE CRITERION OF MAIN PARTS

MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

<table>
<tr><th>Part name</th><th>Check method and criterion</th></tr>
<tr><td>Defrost thermistor (RT61)
Fin temperature thermistor (RT64)
Ambient temperature thermistor (RT65)
Outdoor heat exchanger temperature thermistor (RT68)</td><td>Measure the resistance with a tester.

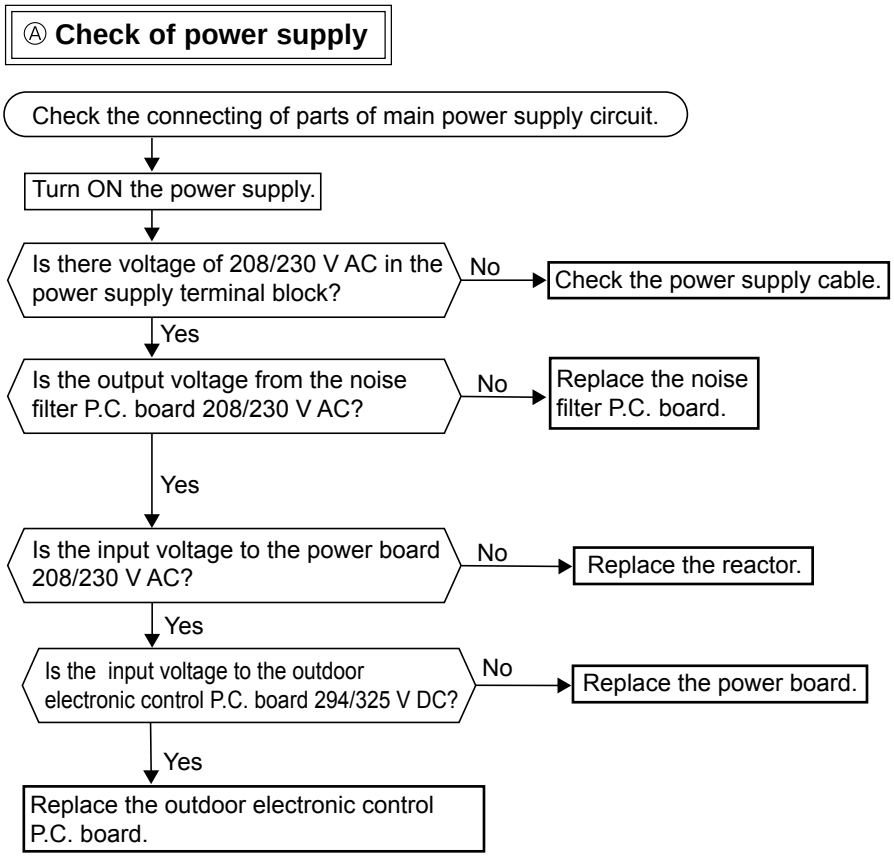
Refer to 11-7. “Test point diagram and voltage”,1. “Outdoor electronic control P.C. board”, or 3. “Outdoor power board”, for the chart of thermistor.</td></tr>
<tr><td>Discharge temperature thermistor (RT62)</td><td>Measure the resistance with a tester.
Before measurement, hold the thermistor with your hands to warm it up.
Refer to 11-7. “Test point diagram and voltage”,1. “Outdoor electronic control P.C. board”, for the chart of thermistor.</td></tr>
<tr><td>Compressor
 
</td><td>Measure the resistance between terminals using a tester.
(Winding temperature: 14°F ~ 104°F)
<table><tr><th colspan="2">Normal (Each phase)</th></tr><tr><th>MXZ-2B20NA</th><th>MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA</th></tr><tr><td>0.86 Ω ~ 1.06 Ω</td><td>1.29 Ω ~ 1.49 Ω</td></tr></table></td></tr>
<tr><td>Outdoor fan motor
 
</td><td>Measure the resistance between lead wires using a tester.
(Part temperature: 14°F ~ 104°F)
<table><tr><th colspan="2">Normal (Each phase)</th></tr><tr><th>MXZ-2B20NA</th><th>MXZ-2B20NA - 1 MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA</th></tr><tr><td>13.4 Ω ~ 16.4 Ω</td><td>13 Ω ~ 16 Ω</td></tr></table></td></tr>
<tr><td>R.V. coil</td><td>Measure the resistance using a tester. (Part temperature: 14°F ~ 104°F)
<table><tr><th>Normal</th></tr><tr><td>1.2 kΩ ~1.56 kΩ</td></tr></table></td></tr>
<tr><td>Linear expansion valve
MXZ-2B20NA
 

The other models
 
</td><td>Measure the resistance using a tester. (Part temperature: 14°F ~ 104°F)
<table><tr><th colspan="2">Color of lead wire</th><th rowspan="2">Normal</th></tr><tr><th>MXZ-2B20NA</th><th>MXZ-2B20NA - 1
MXZ-3B24NA
MXZ-3B30NA
MXZ-4B36NA</th></tr><tr><td>WHT - RED</td><td>WHT - RED</td><td rowspan="4">37.4 Ω ~ 53.9 Ω</td></tr><tr><td>RED - ORN</td><td>RED - ORN</td></tr><tr><td>YLW - BRN</td><td>YLW - RED</td></tr><tr><td>BRN - BLU</td><td>RED - BLU</td></tr></table></td></tr>
<tr><td>High pressure switch (HPS)
MXZ-3B24NA
MXZ-3B30NA
MXZ-4B36NA</td><td><table><tr><th colspan="2">Pressure</th><th>Normal</th></tr><tr><td rowspan="2">HPS</td><td>537 ± 22 PSIG</td><td>Close</td></tr><tr><td>696^{+7}_{-15} PSIG</td><td>Open</td></tr></table></td></tr>
</table>

11-6. TROUBLESHOOTING FLOW

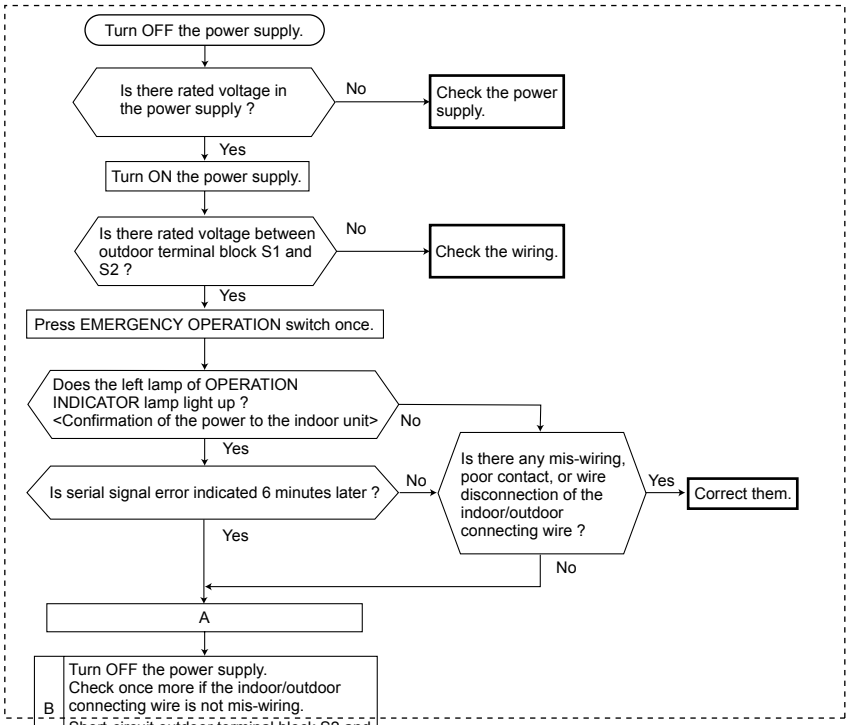
MXZ-2B20NA MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

Outdoor unit does not operate.


Ⓐ Check of power supply
Check the connecting of parts of main power supply circuit.
Turn ON the power supply.
Is there voltage of 208/230 V AC in the power supply terminal block?
No
Check the power supply cable.
Yes
Is the output voltage from the noise filter P.C. board 208/230 V AC?
No
Replace the noise filter P.C. board.
Yes
Is the input voltage to the power board 208/230 V AC?
No
Replace the reactor.
Yes
Is the input voltage to the outdoor electronic control P.C. board 294/325 V DC?
No
Replace the power board.
Yes
Replace the outdoor electronic control P.C. board.

- **When unit cannot operate neither by the remote controller nor by EMERGENCY OPERATION switch. Indoor unit does not operate.**
- **When OPERATION INDICATOR lamp flashes ON and OFF in every 0.5-second. Outdoor unit does not operate.**

Ⓑ How to check mis-wiring and serial signal error


Turn OFF the power supply.
Is there rated voltage in the power supply ?
No
Check the power supply.
Yes
Turn ON the power supply.
Is there rated voltage between outdoor terminal block S1 and S2 ?
No
Check the wiring.
Yes
Press EMERGENCY OPERATION switch once.
Does the left lamp of OPERATION INDICATOR lamp light up ? <Confirmation of the power to the indoor unit>
No
Yes
Is serial signal error indicated 6 minutes later ?
No
Is there any mis-wiring, poor contact, or wire disconnection of the indoor/outdoor connecting wire ?
Yes
Correct them.
Yes
No
A
B
Turn OFF the power supply.
Check once more if the indoor/outdoor connecting wire is not mis-wiring.
Short-circuit outdoor terminal block S2 and S3.
※1
※1 Mis-wiring may damage indoor electronic control P.C. board during the operation.
Be sure to confirm the wiring is correct before the operation starts.

LED indication for communication status

Communication status is indicated by the LED.

Unit status
Blinking: normal communication
Lighting: abnormal communication or not connected

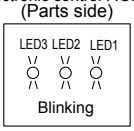
Pattern 1 and 2 is repeatedly displayed alternately. Each pattern is displayed for 15 seconds.

NOTE: "Lighting" in the table below does not indicate abnormal communication.

MXZ-2B20NA

Outdoor electronic control P.C. board

(Parts side)

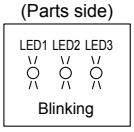


Pattern	LED 3	LED 2	LED 1
1	Lighting	Unit B status	Unit A status
2	Goes out	Lighting	Unit C status

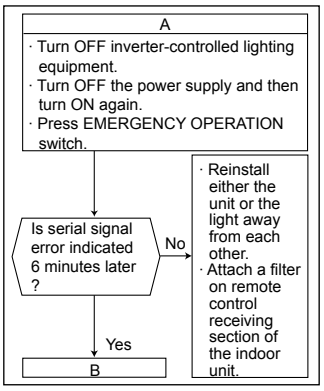
MXZ-3B24NA
MXZ-3B30NA
MXZ-4B36NA

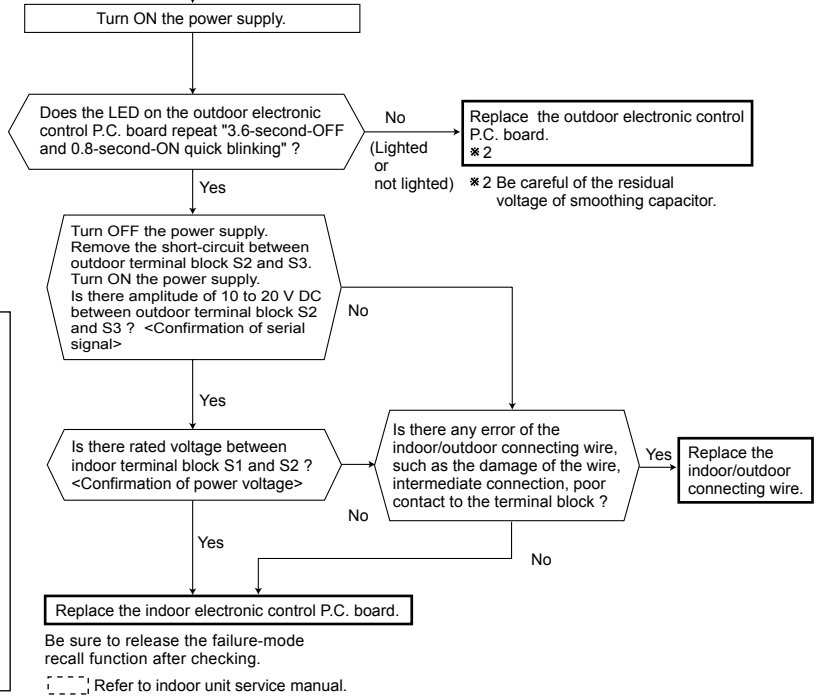
Outdoor electronic control P.C. board

(Parts side)



Pattern	LED 1	LED 2	LED 3
1	Unit A status	Unit B status	Unit C status
2	Unit D status	Lighting	Goes out


A
· Turn OFF inverter-controlled lighting equipment.
· Turn OFF the power supply and then turn ON again.
· Press EMERGENCY OPERATION switch.
Is serial signal error indicated 6 minutes later ?
No
· Reinstall either the unit or the light away from each other.
· Attach a filter on remote control receiving section of the indoor unit.
Yes
B

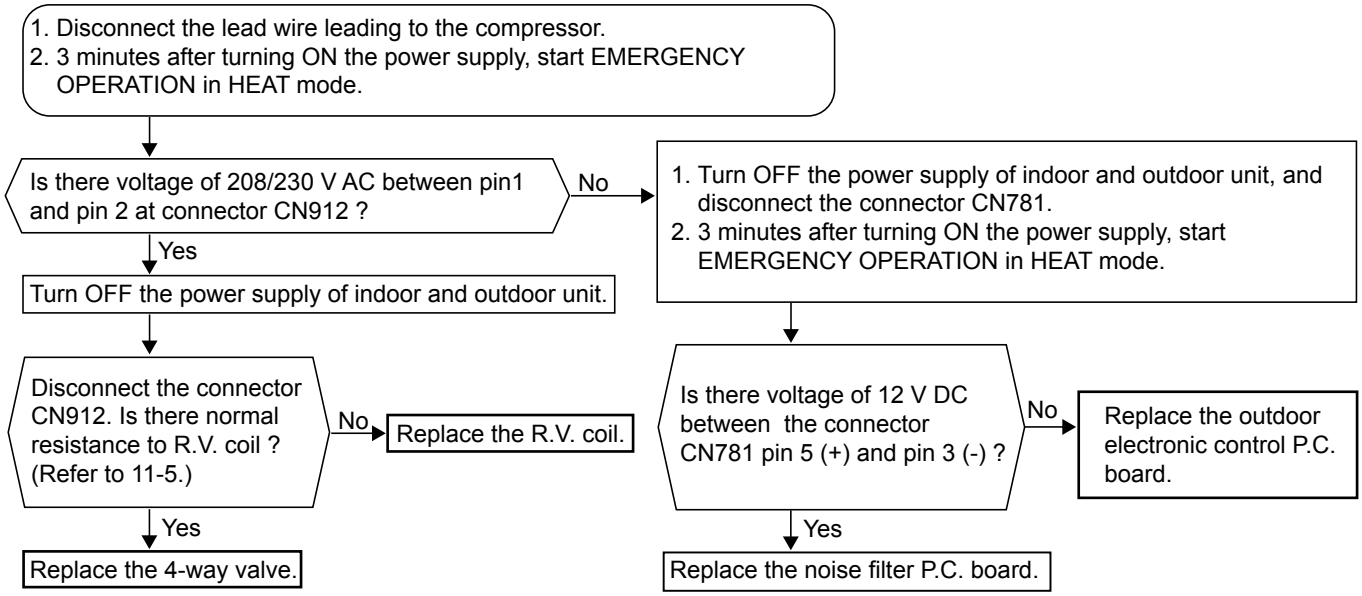

Turn ON the power supply.
Does the LED on the outdoor electronic control P.C. board repeat "3.6-second-OFF and 0.8-second-ON quick blinking" ?
No
(Lighted or not lighted)
Replace the outdoor electronic control P.C. board.
※2
※2 Be careful of the residual voltage of smoothing capacitor.
Yes
Turn OFF the power supply.
Remove the short-circuit between outdoor terminal block S2 and S3.
Turn ON the power supply.
Is there amplitude of 10 to 20 V DC between outdoor terminal block S2 and S3 ? <Confirmation of serial signal>
No
Yes
Is there rated voltage between indoor terminal block S1 and S2 ? <Confirmation of power voltage>
Is there any error of the indoor/outdoor connecting wire, such as the damage of the wire, intermediate connection, poor contact to the terminal block ?
Yes
Replace the indoor/outdoor connecting wire.
No
No
Yes
Replace the indoor electronic control P.C. board.
Be sure to release the failure-mode recall function after checking.
Refer to indoor unit service manual.

The cooling operation or heating operation does not operate.

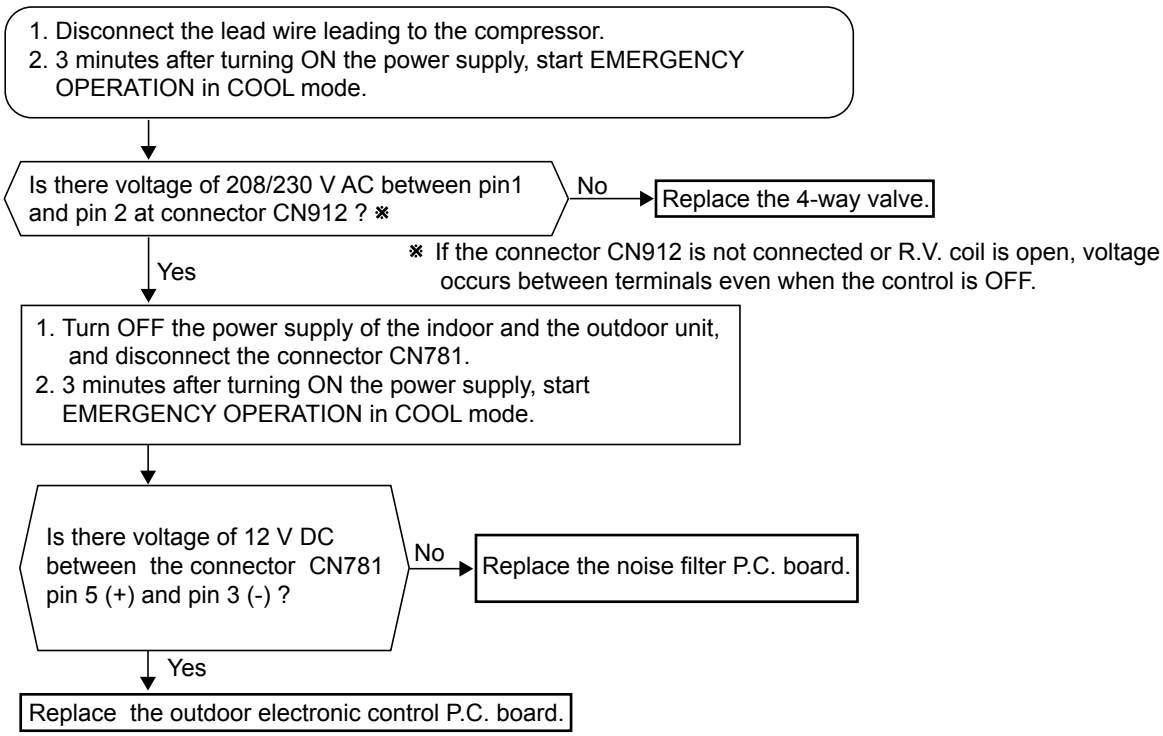
© Check of R.V. coil

CN912	Noise filter P.C. board
CN781	Outdoor electronic control P.C. board

• When heating operation does not work.

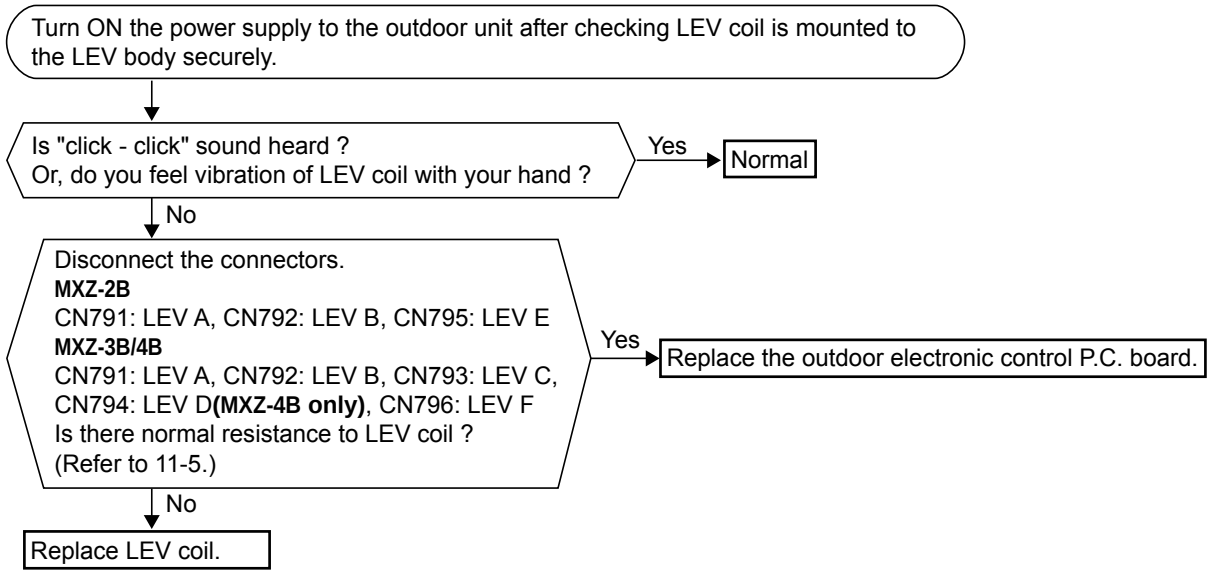

1. Disconnect the lead wire leading to the compressor.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in HEAT mode.
Is there voltage of 208/230 V AC between pin1 and pin 2 at connector CN912 ?
No
1. Turn OFF the power supply of indoor and outdoor unit, and disconnect the connector CN781.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in HEAT mode.
Yes
Turn OFF the power supply of indoor and outdoor unit.
Disconnect the connector CN912. Is there normal resistance to R.V. coil ? (Refer to 11-5.)
No
Replace the R.V. coil.
Is there voltage of 12 V DC between the connector CN781 pin 5 (+) and pin 3 (-) ?
No
Replace the outdoor electronic control P.C. board.
Yes
Replace the 4-way valve.
Yes
Replace the noise filter P.C. board.

• When cooling operation does not work.


1. Disconnect the lead wire leading to the compressor.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in COOL mode.
Is there voltage of 208/230 V AC between pin1 and pin 2 at connector CN912 ? ※
No
Replace the 4-way valve.
※ If the connector CN912 is not connected or R.V. coil is open, voltage occurs between terminals even when the control is OFF.
Yes
1. Turn OFF the power supply of the indoor and the outdoor unit, and disconnect the connector CN781.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in COOL mode.
Is there voltage of 12 V DC between the connector CN781 pin 5 (+) and pin 3 (-) ?
No
Replace the noise filter P.C. board.
Yes
Replace the outdoor electronic control P.C. board.

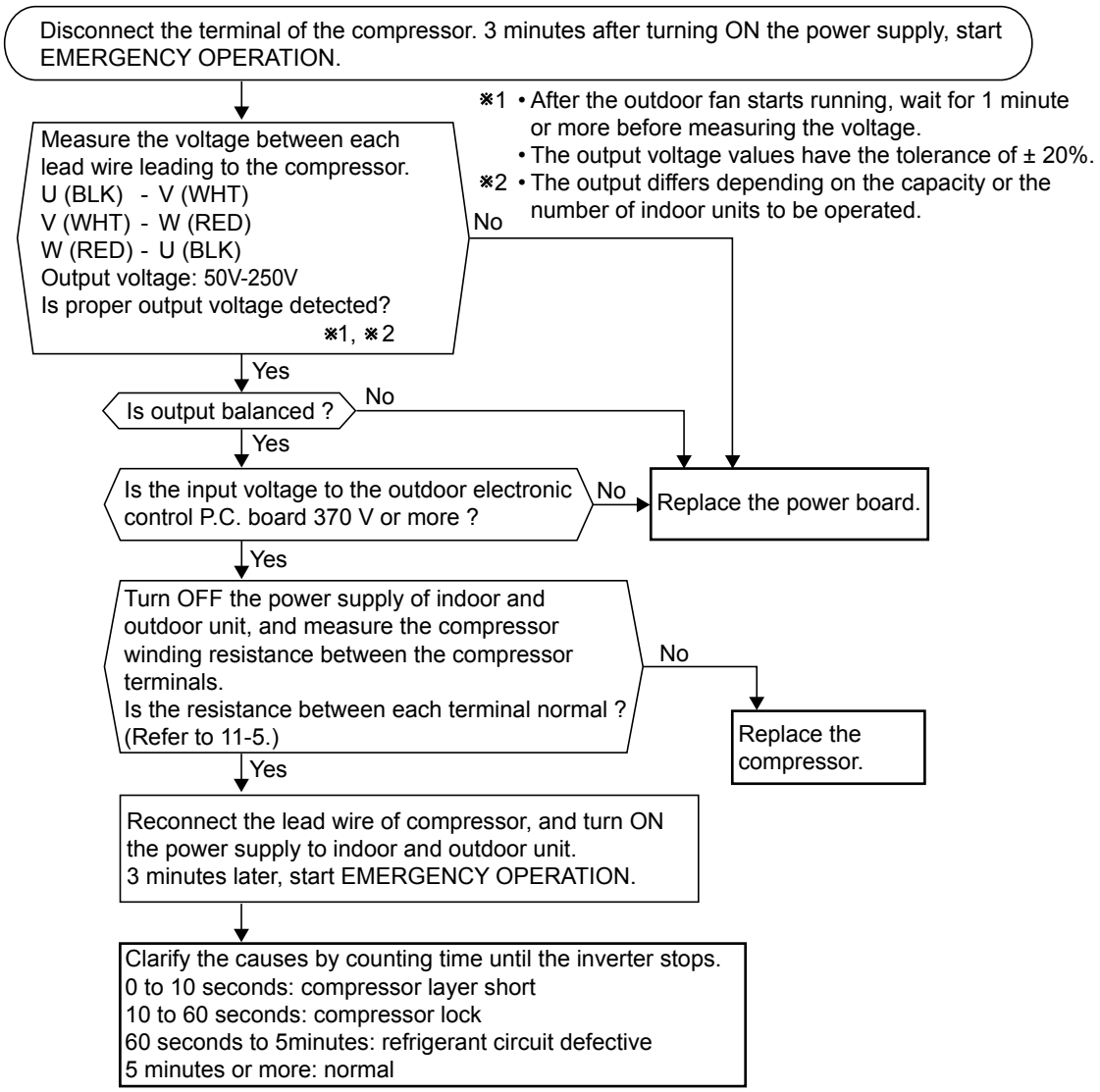
• When cooling, heat exchanger of non-operating indoor unit frosts.
• When heating, non-operating indoor unit get warm.

Ⓓ Check of LEV


Turn ON the power supply to the outdoor unit after checking LEV coil is mounted to the LEV body securely.
Is "click - click" sound heard ?
Or, do you feel vibration of LEV coil with your hand ?
Yes
Normal
No
Disconnect the connectors.
MXZ-2B
CN791: LEV A, CN792: LEV B, CN795: LEV E
MXZ-3B/4B
CN791: LEV A, CN792: LEV B, CN793: LEV C,
CN794: LEV D(MXZ-4B only), CN796: LEV F
Is there normal resistance to LEV coil ?
(Refer to 11-5.)
Yes
Replace the outdoor electronic control P.C. board.
No
Replace LEV coil.

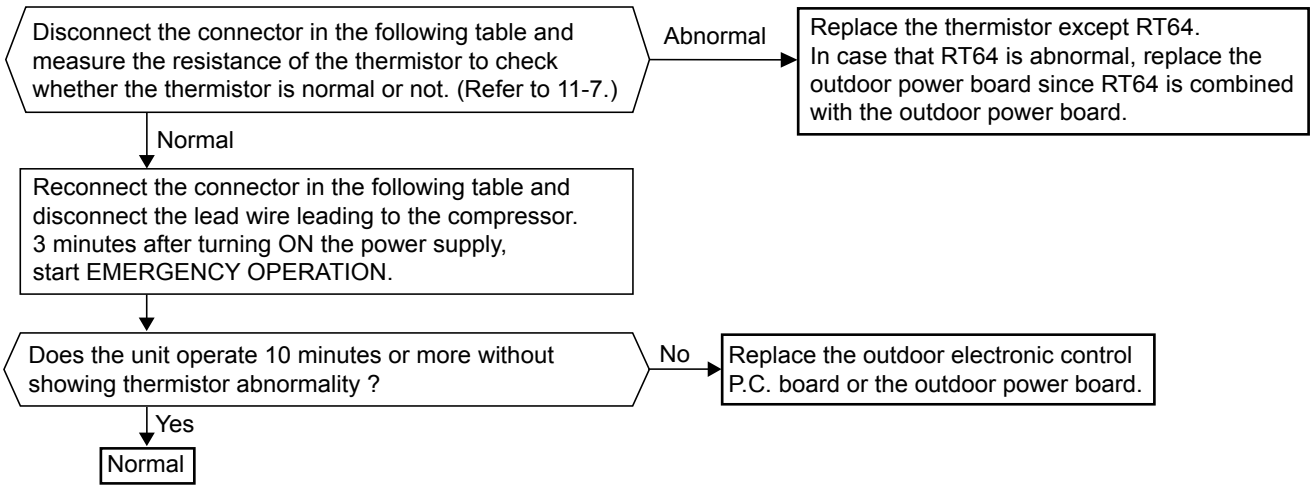
• When heating, room does not get warm.
• When cooling, room does not get cool.

Ⓔ How to check inverter/compressor


Disconnect the terminal of the compressor. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION.
※1 • After the outdoor fan starts running, wait for 1 minute or more before measuring the voltage.
• The output voltage values have the tolerance of ± 20%.
※2 • The output differs depending on the capacity or the number of indoor units to be operated.
Measure the voltage between each lead wire leading to the compressor.
U (BLK) - V (WHT)
V (WHT) - W (RED)
W (RED) - U (BLK)
Output voltage: 50V-250V
Is proper output voltage detected?
※1, ※2
No
Yes
Is output balanced ?
No
Yes
Is the input voltage to the outdoor electronic control P.C. board 370 V or more ?
No
Replace the power board.
Yes
Turn OFF the power supply of indoor and outdoor unit, and measure the compressor winding resistance between the compressor terminals.
Is the resistance between each terminal normal ?
(Refer to 11-5.)
No
Replace the compressor.
Yes
Reconnect the lead wire of compressor, and turn ON the power supply to indoor and outdoor unit.
3 minutes later, start EMERGENCY OPERATION.
Clarify the causes by counting time until the inverter stops.
0 to 10 seconds: compressor layer short
10 to 60 seconds: compressor lock
60 seconds to 5minutes: refrigerant circuit defective
5 minutes or more: normal

• When thermistor is abnormal.

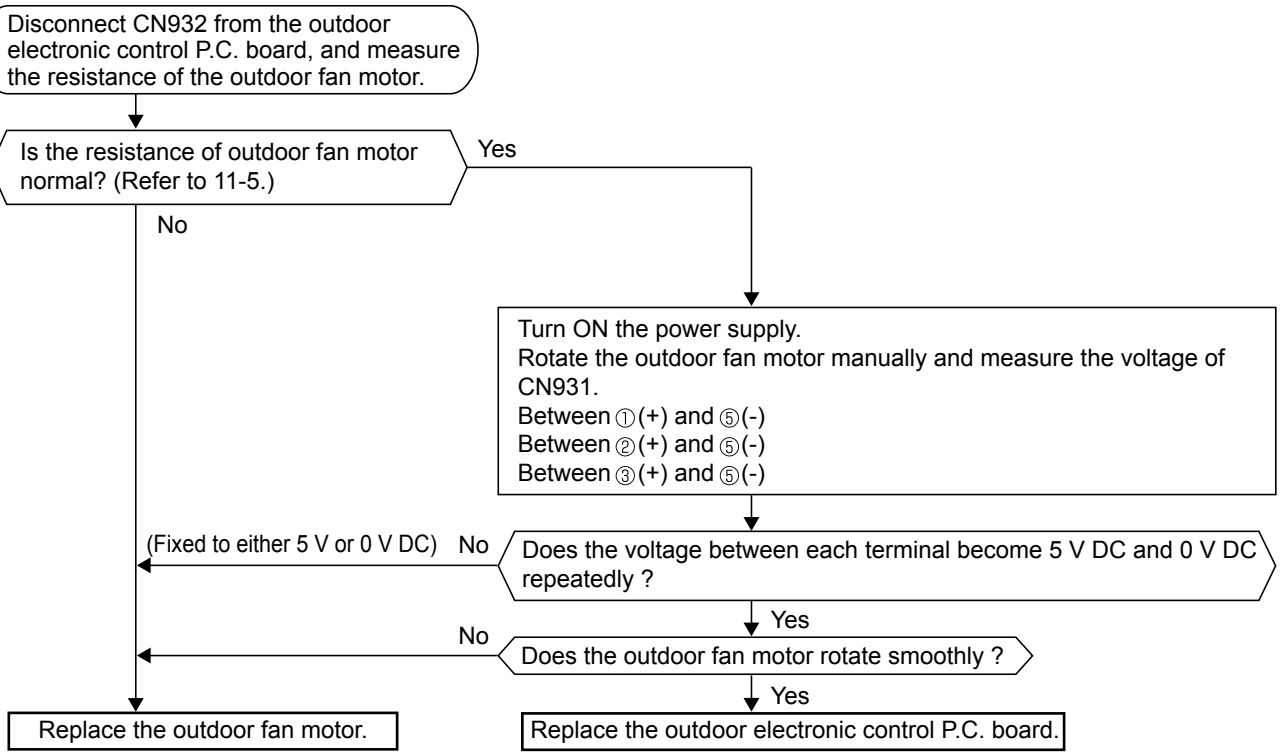
Ⓕ Check of outdoor thermistors


Disconnect the connector in the following table and measure the resistance of the thermistor to check whether the thermistor is normal or not. (Refer to 11-7.)
Abnormal
Replace the thermistor except RT64.
In case that RT64 is abnormal, replace the outdoor power board since RT64 is combined with the outdoor power board.
Normal
Reconnect the connector in the following table and disconnect the lead wire leading to the compressor.
3 minutes after turning ON the power supply, start EMERGENCY OPERATION.
Does the unit operate 10 minutes or more without showing thermistor abnormality ?
No
Replace the outdoor electronic control P.C. board or the outdoor power board.
Yes
Normal

Thermistor	Symbol	Connector, Pin No.	Board
Defrost	RT61	Between CN661 pin1 and pin2	Outdoor electronic control P.C. board
Discharge temperature	RT62	Between CN661 pin3 and pin4	
Outdoor heat exchanger temperature	RT68	Between CN661 pin7 and pin8	
Ambient temperature	RT65	Between CN663 pin1 and pin2	
Fin temperature	RT64	Between CN3 pin1 and pin2	Outdoor power board

• Fan motor does not operate or stops operating shortly after starting the operation.

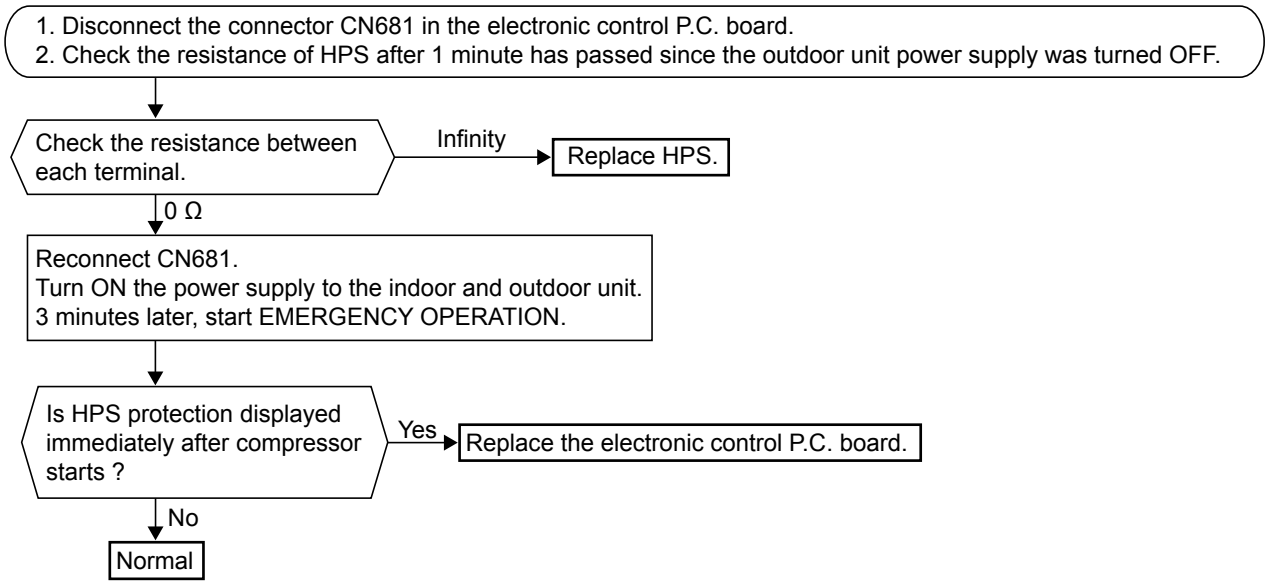
Ⓖ Check of outdoor fan motor


Disconnect CN932 from the outdoor electronic control P.C. board, and measure the resistance of the outdoor fan motor.
Is the resistance of outdoor fan motor normal? (Refer to 11-5.)
Yes
No
Turn ON the power supply.
Rotate the outdoor fan motor manually and measure the voltage of CN931.
Between ①(+) and ⑤(-)
Between ②(+) and ⑤(-)
Between ③(+) and ⑤(-)
(Fixed to either 5 V or 0 V DC)
No
Does the voltage between each terminal become 5 V DC and 0 V DC repeatedly ?
Yes
No
Does the outdoor fan motor rotate smoothly ?
Yes
Replace the outdoor fan motor.
Replace the outdoor electronic control P.C. board.

• When the operation frequency does not go up from the lowest frequency.

Ⓗ Check of HPS

MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

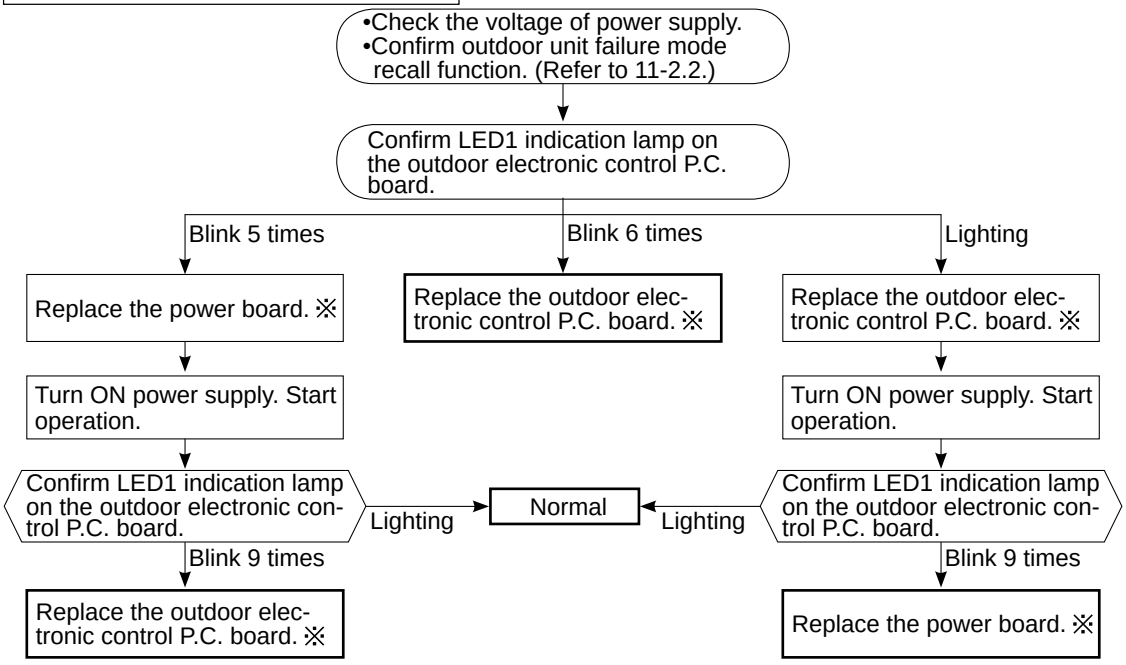

1. Disconnect the connector CN681 in the electronic control P.C. board.
2. Check the resistance of HPS after 1 minute has passed since the outdoor unit power supply was turned OFF.
Check the resistance between each terminal.
Infinity
Replace HPS.
0 Ω
Reconnect CN681.
Turn ON the power supply to the indoor and outdoor unit.
3 minutes later, start EMERGENCY OPERATION.
Is HPS protection displayed immediately after compressor starts ?
Yes
Replace the electronic control P.C. board.
No
Normal

ⓘ The other cases

Indoor unit does not operate. (different operating models in multi system)

- When you try to run two indoor units simultaneously, one for cooling and the other for heating, the unit which transmits signal to the outdoor units first decides the operation mode.
- When the above situation occurs, set all the indoor units to the same mode, turn OFF the indoor units, and then turn them back ON.
- Though the top of the indoor unit sometimes gets warm, this does not mean malfunction. The reason is that the refrigerant gas continuously flows into the indoor unit even while it is not operating.

Ⓙ Check of bus-bar voltage

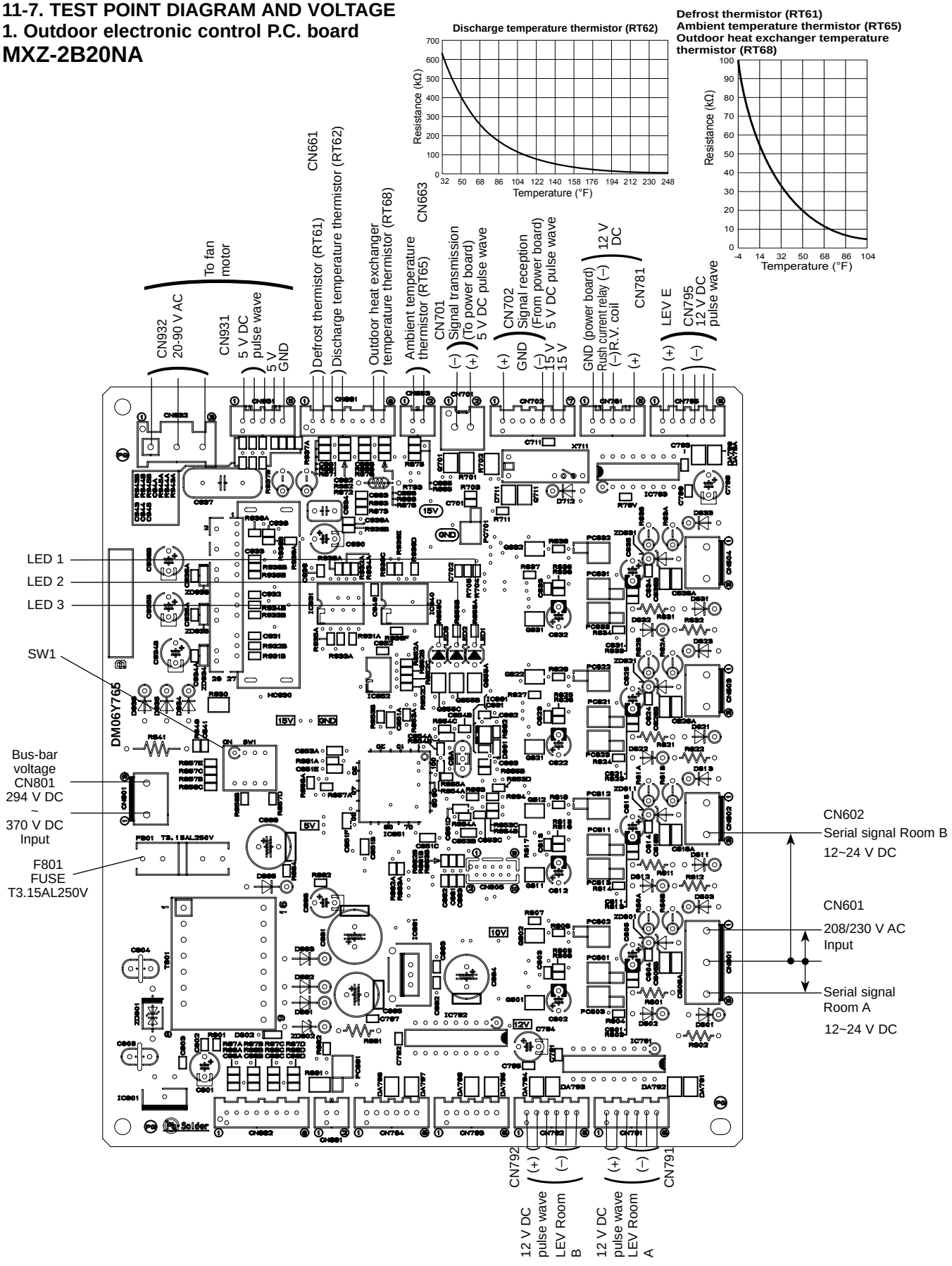

•Check the voltage of power supply.
•Confirm outdoor unit failure mode recall function. (Refer to 11-2.2.)
Confirm LED1 indication lamp on the outdoor electronic control P.C. board.
Blink 5 times
Blink 6 times
Lighting
Replace the power board. ※
Replace the outdoor electronic control P.C. board. ※
Replace the outdoor electronic control P.C. board. ※
Turn ON power supply. Start operation.
Turn ON power supply. Start operation.
Confirm LED1 indication lamp on the outdoor electronic control P.C. board.
Lighting
Normal
Lighting
Confirm LED1 indication lamp on the outdoor electronic control P.C. board.
Blink 9 times
Blink 9 times
Replace the outdoor electronic control P.C. board. ※
Replace the power board. ※

※ Turn OFF power supply before removing P.C. board.

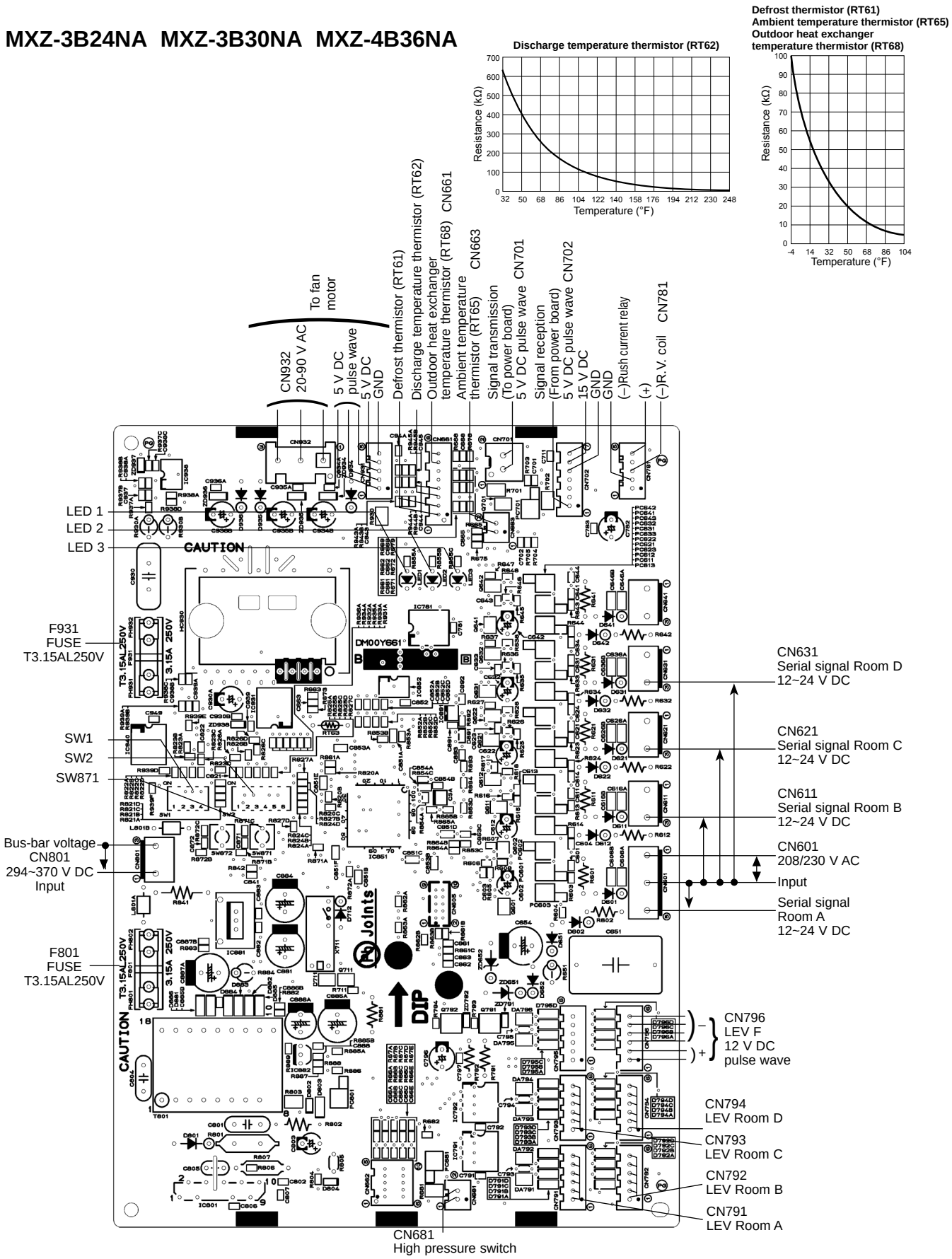
11-7. TEST POINT DIAGRAM AND VOLTAGE

1. Outdoor electronic control P.C. board

MXZ-2B20NA

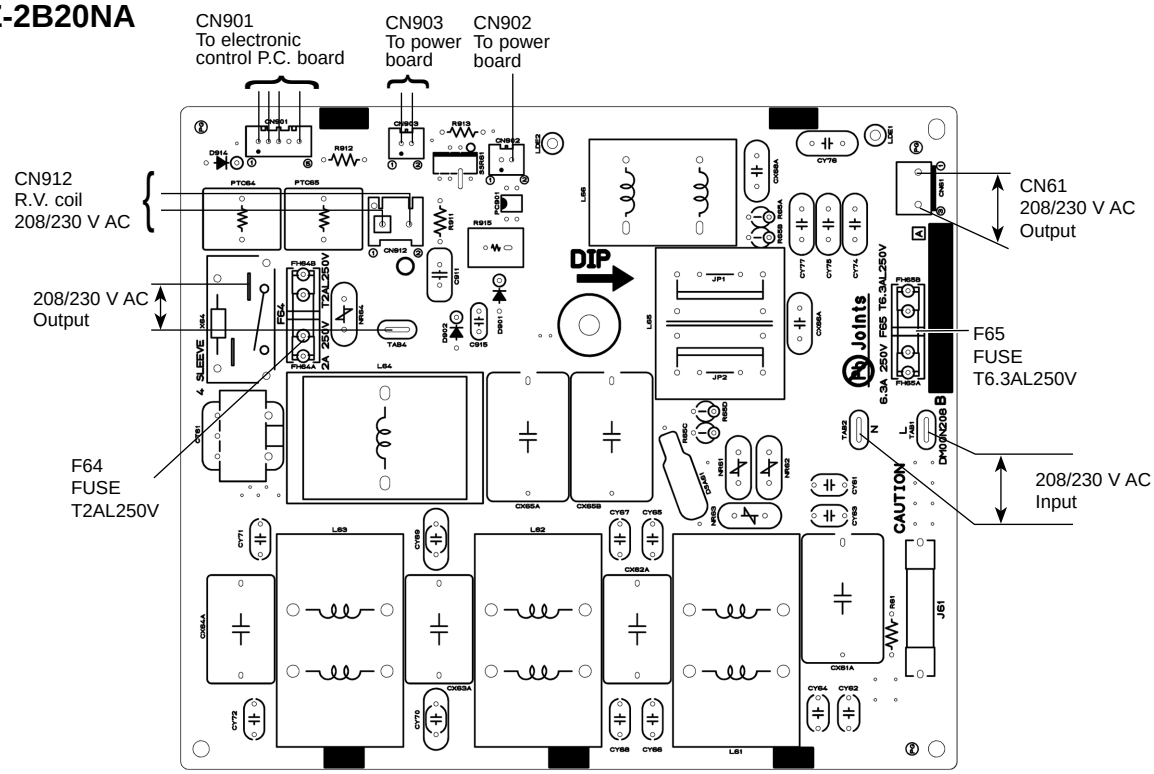

Discharge temperature thermistor (RT62)
Resistance (kΩ)
Temperature (°F)
Defrost thermistor (RT61)
Ambient temperature thermistor (RT65)
Outdoor heat exchanger temperature thermistor (RT68)
Resistance (kΩ)
Temperature (°F)
To fan motor
CN932 20-90 V AC
CN931 5 V DC pulse wave 5 V GND
CN661
Defrost thermistor (RT61)
Discharge temperature thermistor (RT62)
Outdoor heat exchanger temperature thermistor (RT68)
CN663
Ambient temperature thermistor (RT65)
CN701 Signal transmission (To power board) 5 V DC pulse wave (–) (+)
CN702 Signal reception (From power board) 5 V DC pulse wave (+) GND (–) 15 V 15 V
GND (power board) Rush current relay (–) (–)R.V. coil (+) CN781 12 V DC
LEV E (+) (–)
CN795 12 V DC pulse wave
LED 1
LED 2
LED 3
SW1
DM06Y765
Bus-bar voltage CN801 294 V DC ~ 370 V DC Input
F801 FUSE T3.15AL250V
CN602 Serial signal Room B 12~24 V DC
CN601 208/230 V AC Input
Serial signal Room A 12~24 V DC
CN792 (+) (–) 12 V DC pulse wave LEV Room B
CN791 (+) (–) 12 V DC pulse wave LEV Room A

MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

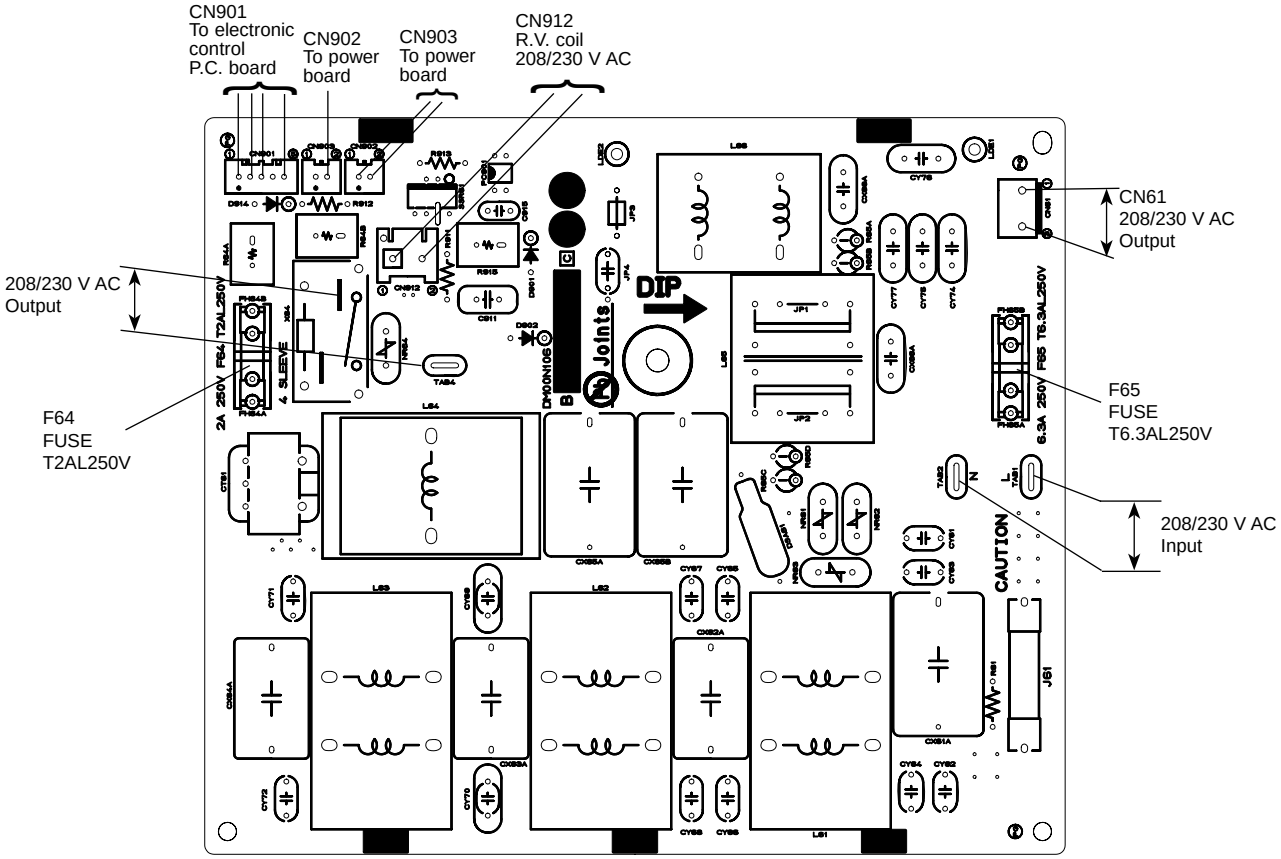


2. Noise filter P.C. board

MXZ-2B20NA



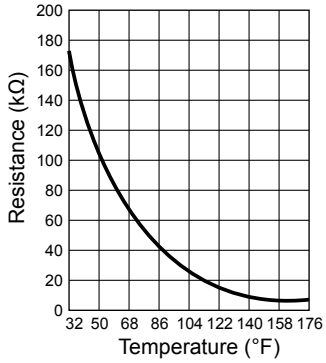
MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

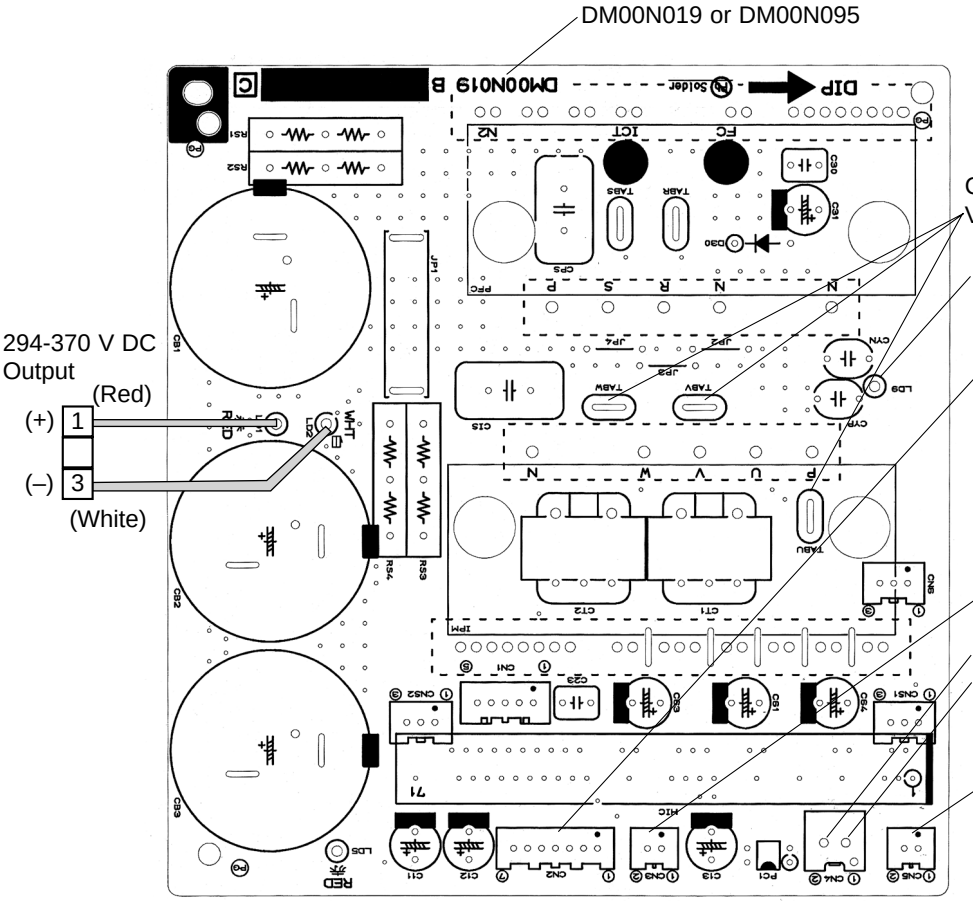


3. Outdoor Power board

MXZ-2B20NA

Fin temperature thermistor (RT64)





Connect to the compressor
Voltage among phases: 5 V to 180 V

Connect to the earth

CN2
Connect to the controller board
(+)1-5(–): Signal transmission
(To electronic control P.C. board)
5 V DC pulse wave
(+)2-5(–): Zero cross signal
3-4 : Not used
(+)6-5(–): 15 V
(+)7-5(–): 15 V

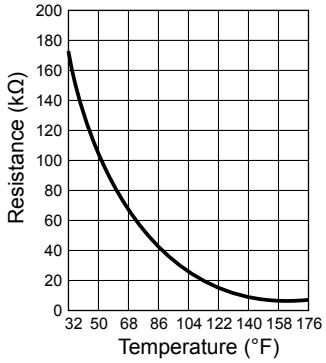
CN3
Fin temperature thermistor RT64

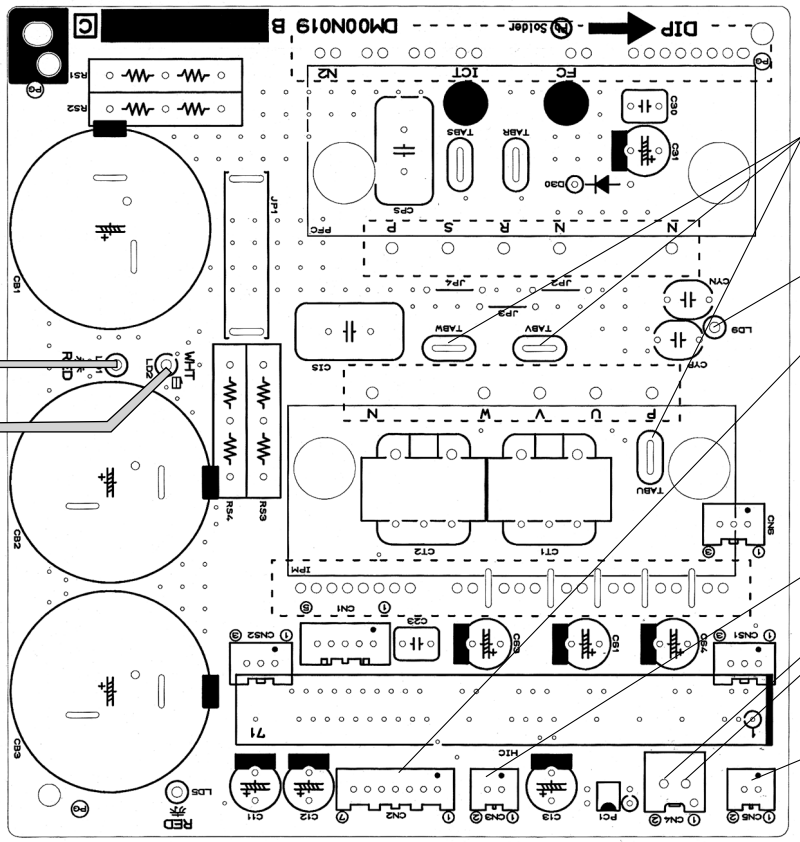
) Signal reception (From electronic control P.C. board)
5 V DC pulse wave

CN5
Primary current detection
(Connect to the noise filter)

MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

Fin temperature thermistor (RT64)





294-370 V DC Output
(Red)
(+) 1
(–) 3
(White)

Connect to the compressor
Voltage among phases: 5 V to 180 V

Connect to the earth

CN2
Connect to the controller board
(+)1-5(–): Signal transmission
(To electronic control P.C. board)
5 V DC pulse wave
(+)2-5(–): Zero cross signal
3-4 : Not used
(+)6-5(–): 15 V
(+)7-5(–): 15 V

CN3
Fin temperature thermistor RT64

Signal reception (From electronic control P.C. board)
5 V DC pulse wave

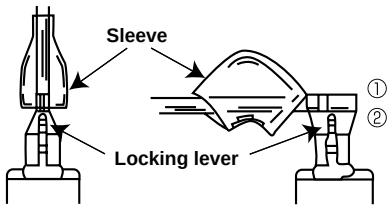
CN5
Primary current detection
(Connect to the noise filter)

12 DISASSEMBLY INSTRUCTIONS

<"Terminal with locking mechanism" Detaching points>

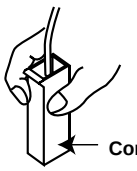
The terminal which has the locking mechanism can be detached as shown below.
There are two types (Refer to (1) and (2)) of the terminal with locking mechanism.
The terminal without locking mechanism can be detached by pulling it out.
Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.



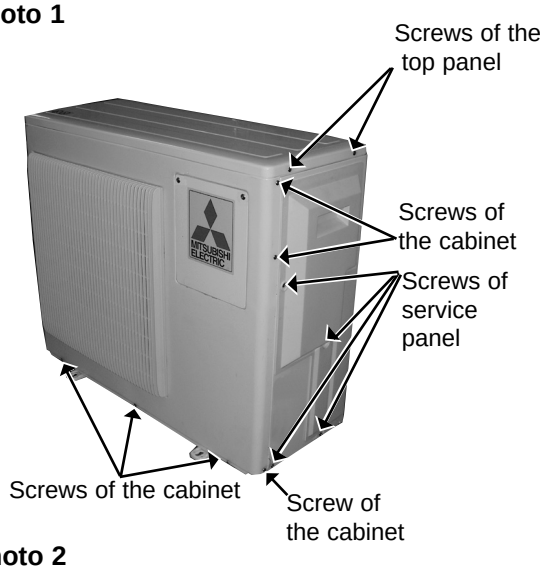
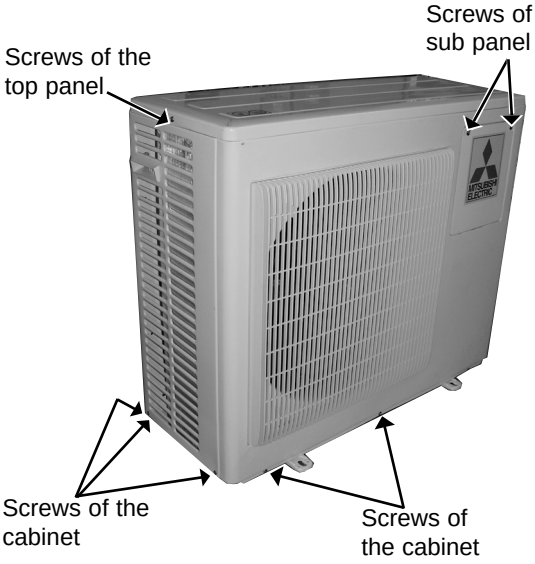
①Slide the sleeve.
②Pull the terminal while pushing the locking lever.

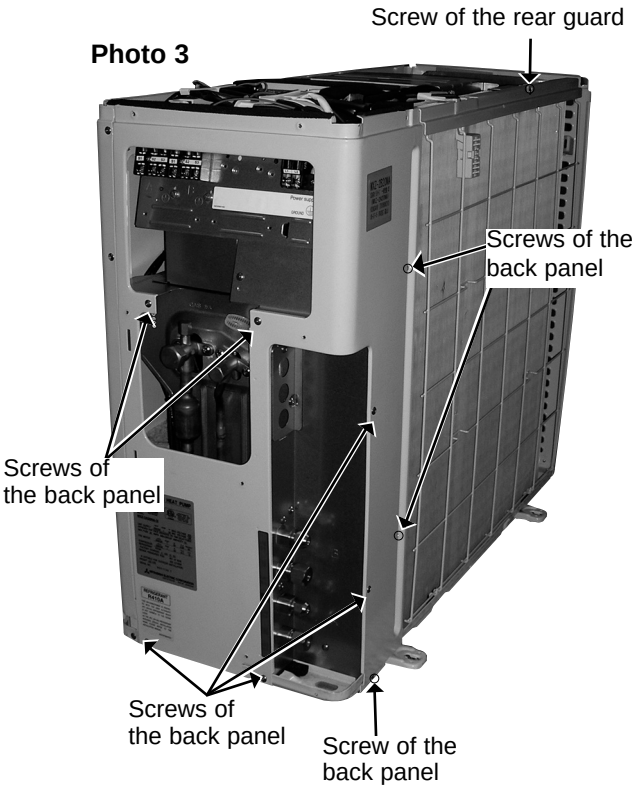
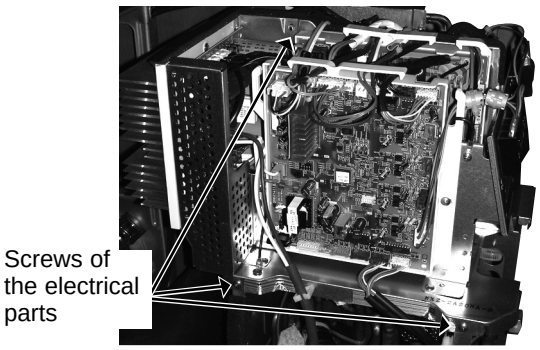
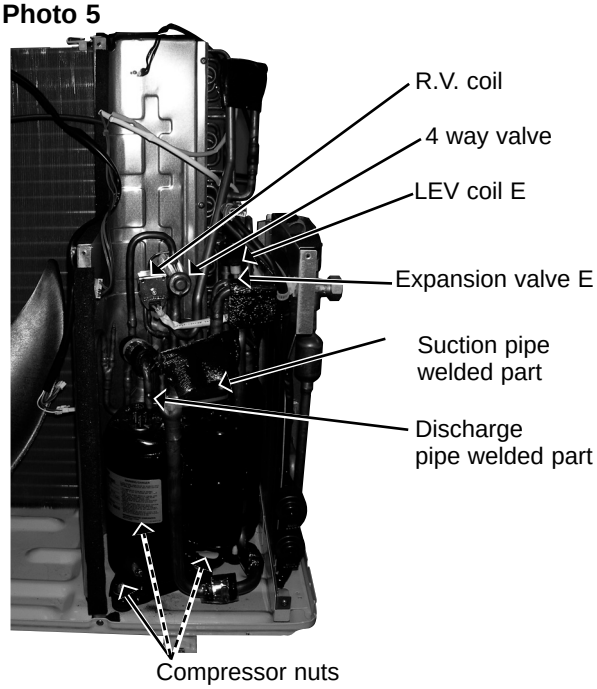
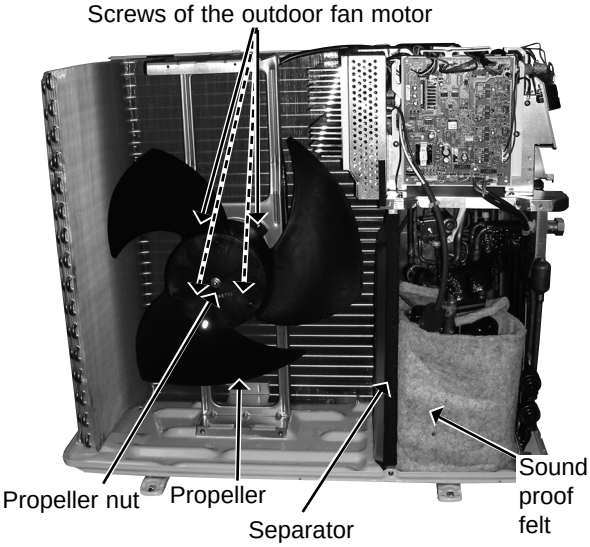
(2) The terminal with this connector has the locking mechanism.

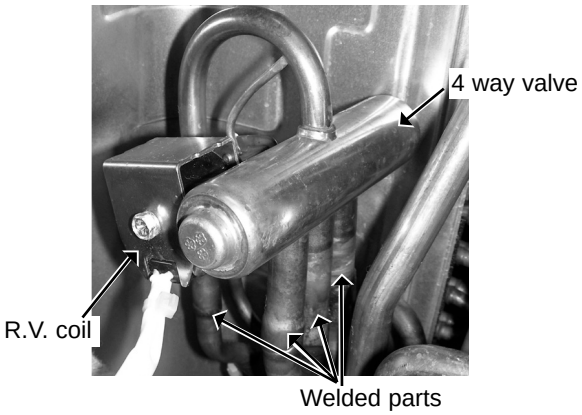
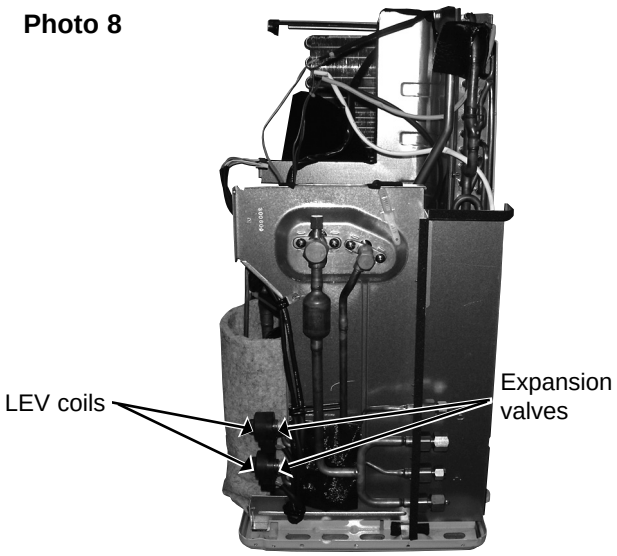
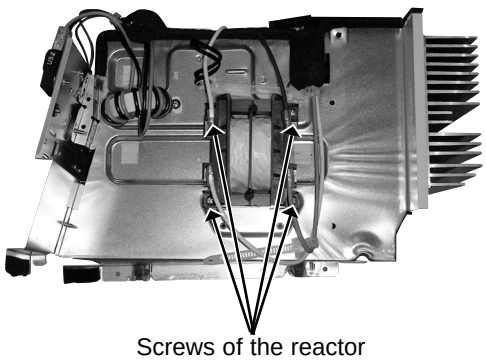


①Hold the sleeve, and pull out the terminal slowly.

12-1. MXZ-2B20NA

OPERATING PROCEDURE	PHOTOS
1. Removing the compressor (1) Remove the screws of the top panel, and remove the top panel. (2) Remove the screws of the service panel, and remove the service panel. (3) Recover gas from the refrigerant circuit. **NOTE:** Recover gas from the pipes until the pressure gauge shows 0 PSIG. (4) Remove the screws of the cabinet, and remove the cabinet. (5) Remove the screws of the back panel, and remove the back panel (Photo 3). (6) Disconnect the compressor lead wire from terminal of the compressor (U, V, W). (7) Disconnect the outdoor electronic control P.C. board connectors: CN661, CN663, CN791, CN792, CN795, CN931, CN932 Disconnect the noise filter P.C. board connector: CN912 (8) Remove the screws of the electrical parts, and remove the electrical parts (Photo 4). (9) Remove the propeller. (10) Remove the screws of the separator, and remove the separator (Photo 6). (11) Remove the sound proof felt (Photo 6). (12) Detach the welded parts of the compressor suction and discharge pipes (Photo 5). (13) Remove the compressor nuts and remove the compressor.	**Photo 1**  **Photo 2** 

OPERATING PROCEDURE	PHOTOS
2. Removing the electronic control P.C. board (1) Remove the screws of the sub panel. (2) Remove the sub panel. (3) Disconnect all connectors and lead wires on the electronic control P.C. board. (4) Remove the electronic control P.C. board. **Photo 3**  	**Photo 4**  **Photo 5** 
3. Removing the fan motor (1) Remove the top panel, the service panel, and the cabinet (Photo 1, 2). (2) Disconnect the connector CN931 and CN932 on the outdoor electronic control P.C. board. (3) Remove the propeller. (4) Remove the fan motor.	**Photo 6** 

OPERATING PROCEDURE	PHOTOS
4. Removing the 4-way valve (1) Remove the top panel (Photo 1). (2) Remove the service panel, the cabinet, and the back panel (Photo 1, 2, 3). (3) Recover gas from the refrigerant circuit. **NOTE:** Recover gas from the pipes until the pressure gauge shows 0 PSIG. (4) Remove the electrical parts (Photo 4). (5) Detach the welded parts of 4-way valve and pipe (Photo 7).	**Photo 7** 
5. Removing the expansion valve (1) Remove the top panel (Photo 1). (2) Remove the service panel, the cabinet, and the back panel (Photo 1, 2, 3). (Gas recovery is not required if the unit is pumped down.) (3) Remove the electrical parts for removing LEV E (Photo 4, 5). (4) Remove the LEV coils. (5) Detach the welded parts of expansion valves and pipes.	**Photo 8** 
6. Removing the reactor (1) Remove the top panel (Photo 1). (2) Remove the service panel, cabinet, back panel, and the electrical parts (Photo 1, 2, 3, 4). (3) Disconnect the reactor lead wire from the terminal of the reactor. (4) Remove the screws of the reactor, and remove the reactor (Photo 9).	**Photo 9** 

12-2. MXZ-3B24NA MXZ-3B30NA MXZ-4B36NA

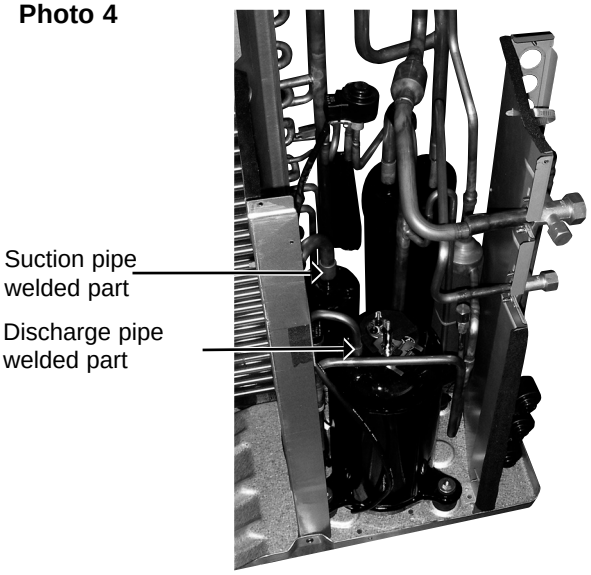
Photo : MXZ-3B24NA

OPERATING PROCEDURE

1. Removing the compressor

(1) Remove the screws of the top panel, and remove the top panel.
(2) Remove the screws of the service panel, and remove the service panel.
(3) Recover gas from the refrigerant circuit.
NOTE : Recover gas from the pipes until the pressure gauge shows 0 PSIG.
(4) Remove the screws of the front panel, and remove the front panel.
(5) Remove the screws of the rear panel, and remove the rear panel.
(6) Disconnect the compressor lead wire from terminal of compressor (U, V, W).
(7) Disconnect the outdoor electronic control P.C. board connectors:
CN661, CN663, CN681, CN791, CN792, CN793, CN794 **(MXZ-4B36NA)**, CN796, CN931, CN932
Disconnect the noise filter P.C. board connector:
CN912
(8) Remove the screws of the electrical parts, and remove the electrical parts.
(9) Remove the propeller.
(10) Remove the screws of the separator, and remove the separator.
(11) Remove the sound proof felt (Photo 5).
(12) Detach the welded parts of the compressor suction and discharge pipes (Photo 4).
(13) Remove the compressor nuts and remove the compressor.

Photo 4



PHOTOS

Photo 1 Screws of the top panel

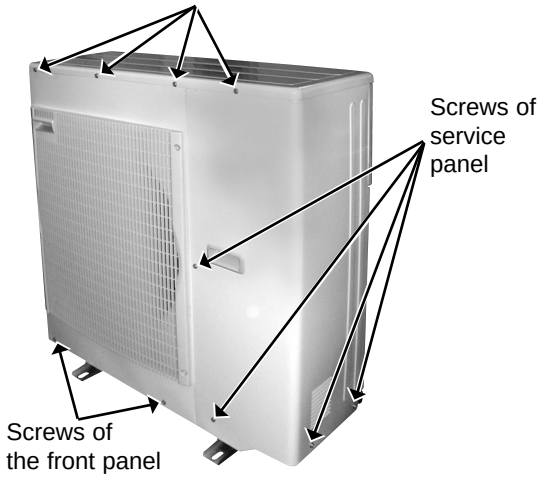


Photo 2

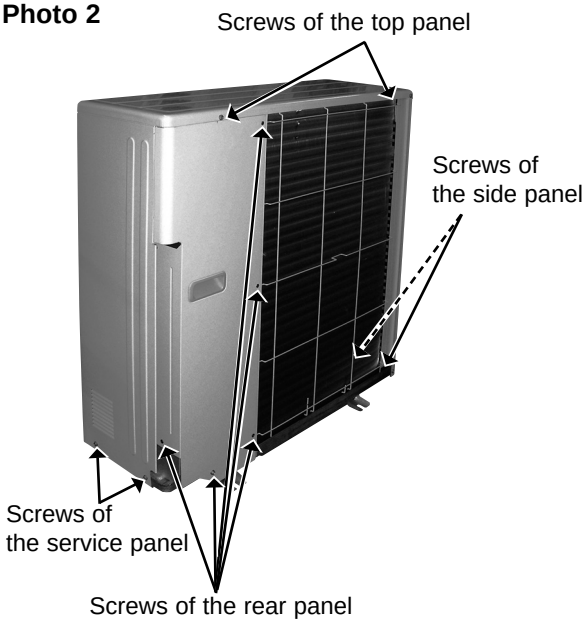


Photo 3

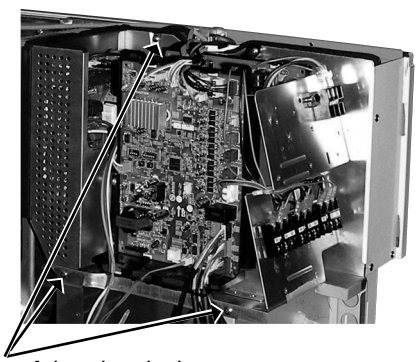


Photo : MXZ-3B24NA

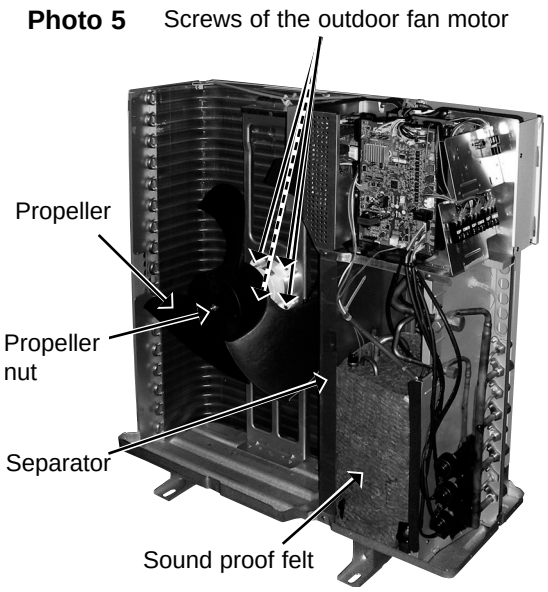
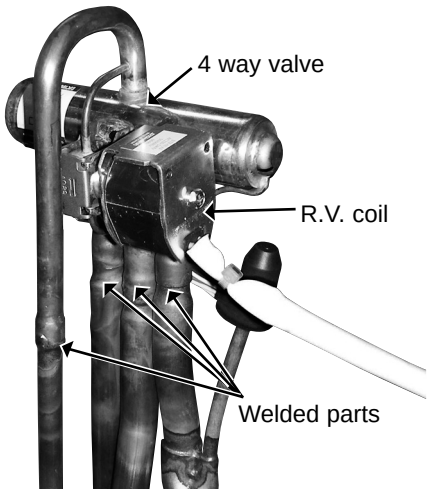
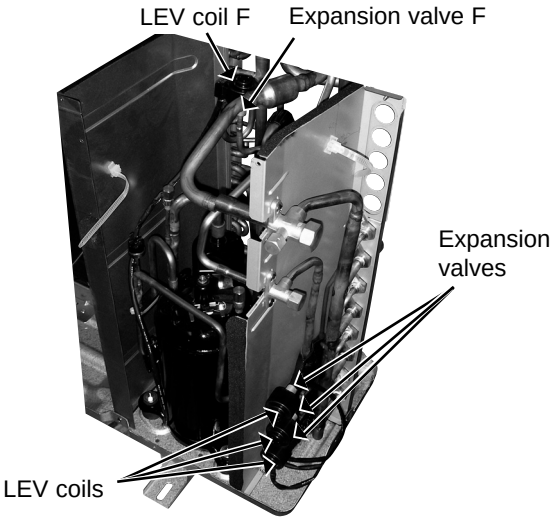
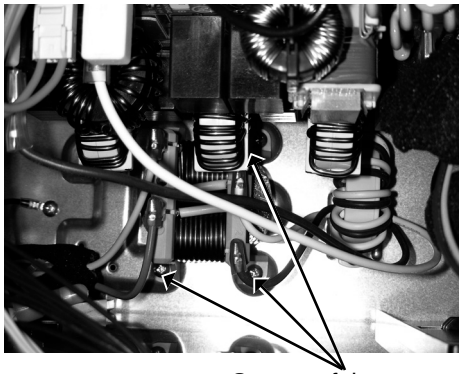
OPERATING PROCEDURE	PHOTOS
2. Removing the fan motor (1) Remove the top panel, the service panel, and the front panel (Photo 1, 2). (2) Disconnect the connectors CN931 and CN932 on the outdoor electronic control P.C. board. (3) Remove the propeller. (4) Remove the fan motor.	**Photo 5** 
3. Removing the 4-way valve (1) Remove the top panel (Photo 1, 2). (2) Remove the service panel, rear panel, and pipe cover (Photo 1,2). (3) Recover gas from the refrigerant circuit. **NOTE :** Recover gas from the pipes until the pressure gauge shows 0 PSIG. (4) Remove the electrical parts (Photo 3). (5) Detach the welded parts of 4-way valve and pipe.	**Photo 6** 
4. Removing the expansion valve (1) Remove the top panel (Photo 1, 2). (2) Remove the service panel (Photo 1, 2). (Gas recovery is not required if the unit is pumped down.) (3) Remove the front panel for removing LEV F (Photo 1). (4) Remove the electrical parts for removing LEV F (Photo 3). (5) Remove the LEV coils. (6) Detach the welded parts of expansion valves and pipes.	**Photo 7** 

Photo : MXZ-3B24NA

OPERATING PROCEDURE	PHOTOS
5. Removing the reactor (1) Remove the top panel (Photo 1, 2). (2) Disconnect the reactor lead wire. (3) Remove the screws of the reactor, and remove the reactor.	**Photo 8**  Screws of the reactor

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Distributed in Sep. 2009. No. OBH560 5
Made in Japan

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Specifications subject to change without notice.

MXZ-2B20NA MXZ-2B20NA-1 COOLING

Indoor units combination	Indoor type		Cooling capacity(BTU/h)			Power consumption (W)	Current(A)		P/F(%)
	A	B	Unit A	Unit B	Total		208V	230V	
06	Wall		6000		6000 (5400 - 9000)	530 (490 - 680)	2.68	2.43	95
09	Wall		9000		9000 (5400 - 9000)	680 (490 - 680)	3.44	3.11	95
	Duct		9000		9000 (5400 - 9000)	750 (510 - 750)	3.80	3.43	95
12	Wall		12000		12000 (5400 - 12000)	930 (490 - 930)	4.71	4.26	95
	Duct		12000		12000 (5400 - 12000)	1010 (510 - 1010)	5.11	4.62	95
15	Wall		15000		15000 (5400 - 15000)	1330 (490 - 1330)	6.73	6.09	95
	Duct		15000		15000 (5400 - 15000)	1560 (510 - 1560)	7.89	7.14	95
06+06	Wall	Wall	6000	6000	12000 (7800 - 15000)	800 (630 - 1820)	3.97	3.59	97
06+09	Wall	Wall	6000	9000	15000 (7800 - 18000)	1050 (630 - 1820)	5.20	4.71	97
	Wall	Duct	6000	9000	15000 (7800 - 16500)	1150 (650 - 1800)	5.70	5.15	97
06+12	Wall	Wall	6000	12000	18000 (7800 - 20000)	1440 (630 - 1820)	7.14	6.45	97
	Wall	Duct	6000	12000	18000 (7800 - 19000)	1610 (650 - 1800)	7.98	7.22	97
06+15	Wall	Wall	5800	14200	20000 (7800 - 23000)	1660 (630 - 2230)	8.23	7.44	97
	Wall	Duct	5800	14200	20000 (7800 - 21500)	1930 (650 - 2210)	9.57	8.65	97
09+09	Wall	Wall	9000	9000	18000 (7800 - 20000)	1440 (630 - 1820)	7.14	6.45	97
	Wall	Duct	9000	9000	18000 (7800 - 19000)	1610 (650 - 1800)	7.98	7.22	97
	Duct	Duct	9000	9000	18000 (7800 - 18000)	1780 (670 - 1780)	8.82	7.98	97
09+12	Wall	Wall	8500	11500	20000 (7800 - 23000)	1660 (630 - 2230)	8.23	7.44	97
	Wall	Duct	8500	11500	20000 (7800 - 21500)	1930 (650 - 2210)	9.57	8.65	97
	Duct	Wall	8500	11500	20000 (7800 - 21500)	1930 (650 - 2210)	9.57	8.65	97
	Duct	Duct	8500	11500	20000 (7800 - 20000)	2190 (670 - 2190)	10.85	9.82	97
09+15	Wall	Wall	7500	12500	20000 (7800 - 23000)	1660 (630 - 2230)	8.23	7.44	97
	Wall	Duct	7500	12500	20000 (7800 - 21500)	1930 (650 - 2210)	9.57	8.65	97
	Duct	Wall	7500	12500	20000 (7800 - 21500)	1930 (650 - 2210)	9.57	8.65	97
	Duct	Duct	7500	12500	20000 (7800 - 20000)	2190 (670 - 2190)	10.85	9.82	97
12+12	Wall	Wall	10000	10000	20000 (7800 - 23000)	1630 (630 - 2230)	8.08	7.31	97
	Wall	Duct	10000	10000	20000 (7800 - 21500)	1910 (650 - 2210)	9.47	8.56	97
	Duct	Duct	10000	10000	20000 (7800 - 20000)	2190 (670 - 2190)	10.85	9.82	97

MXZ-2B20NA MXZ-2B20NA-1 HEATING

Indoor units combination	Indoor type		Heating capacity(BTU/h)			Power consumption (W)	Current(A)		P/F(%)
	A	B	Unit A	Unit B	Total		208V	230V	
06	Wall		7400		7400 (5200 - 14400)	610 (480 - 1400)	3.09	2.79	95
09	Wall		11000		11000 (5200 - 15400)	880 (480 - 1430)	4.45	4.03	95
	Duct		10900		10900 (5200 - 15400)	940 (480 - 1430)	4.76	4.30	95
12	Wall		13600		13600 (5200 - 16400)	1150 (480 - 1460)	5.82	5.26	95
	Duct		13600		13600 (5200 - 16400)	1180 (480 - 1460)	5.97	5.40	95
15	Wall		18000		18000 (5200 - 21100)	1650 (480 - 2100)	8.35	7.55	95
	Duct		18000		18000 (5200 - 21100)	1720 (480 - 2100)	8.70	7.87	95
06+06	Wall	Wall	7400	7400	14800 (8500 - 25500)	960 (520 - 2410)	4.76	4.30	97
06+09	Wall	Wall	7400	11000	18400 (8500 - 25500)	1270 (520 - 2410)	6.29	5.69	97
	Wall	Duct	7400	10900	18300 (8500 - 25500)	1400 (520 - 2520)	6.94	6.28	97
06+12	Wall	Wall	7400	13600	21000 (8500 - 25500)	1520 (520 - 2410)	7.53	6.81	97
	Wall	Duct	7400	13600	21000 (8500 - 25500)	1590 (520 - 2520)	7.88	7.13	97
06+15	Wall	Wall	6400	15600	22000 (8500 - 25500)	1650 (520 - 2410)	8.18	7.40	97
	Wall	Duct	6400	15600	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
09+09	Wall	Wall	11000	11000	22000 (8500 - 25500)	1650 (520 - 2410)	8.18	7.40	97
	Wall	Duct	11000	10900	21900 (8500 - 25500)	1740 (520 - 2520)	8.62	7.80	97
	Duct	Duct	10900	10900	21800 (8500 - 25500)	1820 (520 - 2620)	9.02	8.16	97
09+12	Wall	Wall	9500	12500	22000 (8500 - 25500)	1650 (520 - 2410)	8.18	7.40	97
	Wall	Duct	9500	12500	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
	Duct	Wall	9500	12500	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
	Duct	Duct	9500	12500	22000 (8500 - 25500)	1780 (520 - 2620)	8.82	7.98	97
09+15	Wall	Wall	8250	13750	22000 (8500 - 25500)	1650 (520 - 2410)	8.18	7.40	97
	Wall	Duct	8250	13750	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
	Duct	Wall	8250	13750	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
	Duct	Duct	8250	13750	22000 (8500 - 25500)	1780 (520 - 2620)	8.82	7.98	97
12+12	Wall	Wall	11000	11000	22000 (8500 - 25500)	1650 (520 - 2410)	8.18	7.40	97
	Wall	Duct	11000	11000	22000 (8500 - 25500)	1720 (520 - 2520)	8.52	7.71	97
	Duct	Duct	11000	11000	22000 (8500 - 25500)	1780 (520 - 2620)	8.82	7.98	97

MXZ-3B24NA COOLING

Indoor units combination	Indoor type			Cooling capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
06	Non Duct			6500			6500 (5200 - 6500)	580 (460 - 580)	2.94	2.65	95
09	Non Duct			9000			9000 (7200 - 9000)	800 (580 - 800)	4.05	3.66	95
	Duct			9000			9000 (7200 - 9000)	820 (600 - 820)	4.15	3.75	95
12	Non Duct			12000			12000 (7200 - 12000)	1000 (580 - 1000)	5.06	4.58	95
	Duct			12000			12000 (7200 - 12000)	1020 (600 - 1020)	5.16	4.67	95
15	Non Duct			14000			14000 (7200 - 15000)	1320 (580 - 1320)	6.68	6.04	95
	Duct			15000			15000 (7200 - 15000)	1340 (600 - 1340)	6.78	6.13	95
18	Non Duct			17200			17200 (7200 - 17200)	1570 (580 - 1570)	7.95	7.19	95
	Duct			17200			17200 (7200 - 17200)	1590 (600 - 1590)	8.05	7.28	95
06+06	Non Duct	Non Duct		6500	6500		13000 (12000 - 13000)	960 (920 - 960)	4.76	4.30	97
06+09	Non Duct	Non Duct		6500	9000		15500 (12000 - 15500)	1200 (920 - 1200)	5.95	5.38	97
	Non Duct	Duct		6500	9000		15500 (12000 - 15500)	1260 (940 - 1260)	6.25	5.65	97
06+12	Non Duct	Non Duct		6500	12000		18500 (12000 - 18500)	1540 (920 - 1540)	7.63	6.90	97
	Non Duct	Duct		6500	12000		18500 (12000 - 18500)	1600 (940 - 1600)	7.93	7.17	97
06+15	Non Duct	Non Duct		6400	13600		20000 (12000 - 20500)	1740 (920 - 1820)	8.62	7.80	97
	Non Duct	Duct		6100	13900		20000 (12000 - 20500)	1800 (940 - 1840)	8.92	8.07	97
06+18	Non Duct	Non Duct		5500	14500		20000 (12000 - 23700)	1700 (920 - 2440)	8.43	7.62	97
	Non Duct	Duct		5500	14500		20000 (12000 - 23700)	1760 (940 - 2460)	8.72	7.89	97
09+09	Non Duct	Non Duct		9000	9000		18000 (12000 - 18000)	1480 (920 - 1480)	7.34	6.63	97
	Non Duct	Duct		9000	9000		18000 (12000 - 18000)	1660 (940 - 1660)	8.23	7.44	97
	Duct	Duct		9000	9000		18000 (12000 - 18000)	1840 (960 - 1840)	9.12	8.25	97
09+12	Non Duct	Non Duct		8600	11400		20000 (12000 - 21000)	1780 (920 - 1940)	8.82	7.98	97
	Non Duct	Duct		8600	11400		20000 (12000 - 21000)	1840 (940 - 1990)	9.12	8.25	97
	Duct	Non Duct		8600	11400		20000 (12000 - 21000)	1840 (940 - 1990)	9.12	8.25	97
	Duct	Duct		8600	11400		20000 (12000 - 21000)	1900 (960 - 2040)	9.42	8.52	97
09+15	Non Duct	Non Duct		7900	12100		20000 (12000 - 24000)	1760 (920 - 2500)	8.72	7.89	97
	Non Duct	Duct		7500	12500		20000 (12000 - 24000)	1820 (940 - 2520)	9.02	8.16	97
	Duct	Non Duct		7900	12100		20000 (12000 - 24000)	1820 (940 - 2520)	9.02	8.16	97
	Duct	Duct		7500	12500		20000 (12000 - 24000)	1880 (960 - 2540)	9.32	8.43	97
09+18	Non Duct	Non Duct		6800	13200		20000 (12000 - 26000)	1720 (920 - 2800)	8.52	7.71	97
	Non Duct	Duct		6800	13200		20000 (12000 - 26000)	1780 (940 - 2820)	8.82	7.98	97
	Duct	Non Duct		6800	13200		20000 (12000 - 26000)	1780 (940 - 2820)	8.82	7.98	97
	Duct	Duct		6800	13200		20000 (12000 - 26000)	1840 (960 - 2840)	9.12	8.25	97
12+12	Non Duct	Non Duct		10000	10000		20000 (12000 - 24000)	1740 (920 - 2500)	8.62	7.80	97
	Non Duct	Duct		10000	10000		20000 (12000 - 24000)	1800 (940 - 2520)	8.92	8.07	97
	Duct	Duct		10000	10000		20000 (12000 - 24000)	1860 (960 - 2540)	9.22	8.34	97
12+15	Non Duct	Non Duct		9300	10700		20000 (12000 - 26000)	1720 (920 - 2800)	8.52	7.71	97
	Non Duct	Duct		8900	11100		20000 (12000 - 26000)	1780 (940 - 2820)	8.82	7.98	97
	Duct	Non Duct		9300	10700		20000 (12000 - 26000)	1780 (940 - 2820)	8.82	7.98	97
	Duct	Duct		8900	11100		20000 (12000 - 26000)	1840 (960 - 2840)	9.12	8.25	97
06+06+06	Non Duct	Non Duct	Non Duct	6500	6500	6500	19500 (12600 - 19500)	1600 (1000 - 1600)	7.93	7.17	97
06+06+09	Non Duct	Non Duct	Non Duct	6500	6500	9000	22000 (12600 - 22000)	1760 (1000 - 1760)	8.72	7.89	97
	Non Duct	Non Duct	Duct	6500	6500	9000	22000 (12600 - 22000)	1940 (1020 - 1940)	9.62	8.70	97
06+06+12	Non Duct	Non Duct	Non Duct	5800	5800	10400	22000 (12600 - 25000)	1720 (1000 - 2230)	8.52	7.71	97
	Non Duct	Non Duct	Duct	5800	5800	10600	22200 (12600 - 25000)	1980 (1020 - 2330)	9.81	8.87	97
06+06+15	Non Duct	Non Duct	Non Duct	5300	5300	11400	22000 (12600 - 27000)	1680 (1000 - 2530)	8.33	7.53	97
	Non Duct	Non Duct	Duct	5300	5300	11900	22500 (12600 - 27000)	1940 (1020 - 2580)	9.62	8.70	97
06+09+09	Non Duct	Non Duct	Non Duct	6000	8000	8000	22000 (12600 - 24500)	1720 (1000 - 2230)	8.52	7.71	97
	Non Duct	Non Duct	Duct	6000	8000	8200	22200 (12600 - 24500)	1980 (1020 - 2260)	9.81	8.87	97
	Non Duct	Duct	Duct	6000	8200	8200	22400 (12600 - 24500)	2240 (1040 - 2290)	11.10	10.04	97

MXZ-3B24NA COOLING

Indoor units combination	Indoor type			Cooling capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
06+09+12	Non Duct	Non Duct	Non Duct	5200	7200	9600	22000 (12600 - 27000)	1680 (1000 - 2640)	8.33	7.53	97
	Non Duct	Non Duct	Duct	5200	7200	10100	22500 (12600 - 26000)	1940 (1020 - 2660)	9.62	8.70	97
	Non Duct	Duct	Non Duct	5200	7700	9600	22500 (12600 - 26000)	1940 (1020 - 2670)	9.62	8.70	97
	Non Duct	Duct	Duct	5200	7700	10100	23000 (12600 - 25000)	2180 (1040 - 2690)	10.80	9.77	97
09+09+09	Non Duct	Non Duct	Non Duct	7333	7333	7333	22000 (12600 - 27000)	1680 (1000 - 2530)	8.33	7.53	97
	Non Duct	Non Duct	Duct	7300	7300	7900	22500 (12600 - 26500)	1940 (1020 - 2670)	9.62	8.70	97
	Non Duct	Duct	Duct	7300	7900	7900	23100 (12600 - 26000)	2200 (1040 - 2810)	10.90	9.86	97
	Duct	Duct	Duct	7866	7866	7866	23600 (12600 - 25500)	2460 (1060 - 2950)	12.19	11.03	97

MXZ-3B24NA HEATING

Indoor units combination	Indoor type			Heating capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
06	Non Duct			7800			7800 (6800 - 14400)	640 (540 - 1460)	3.24	2.93	95
09	Non Duct			10900			10900 (8600 - 15400)	1040 (780 - 1520)	5.26	4.76	95
	Duct			10900			10900 (8600 - 15400)	1100 (780 - 1520)	5.57	5.03	95
12	Non Duct			14400			14400 (8600 - 16400)	1320 (780 - 1600)	6.68	6.04	95
	Duct			13600			13600 (8600 - 16400)	1380 (780 - 1600)	6.98	6.32	95
15	Non Duct			18000			18000 (8600 - 21100)	1880 (780 - 2280)	9.51	8.60	95
	Duct			18000			18000 (8600 - 21100)	1940 (780 - 2280)	9.82	8.88	95
18	Non Duct			21600			21600 (8600 - 24900)	2360 (780 - 2770)	11.94	10.80	95
	Duct			21600			21600 (8600 - 24900)	2410 (780 - 2770)	12.20	11.03	95
06+06	Non Duct	Non Duct		7800	7800		15600 (11000 - 25800)	1020 (740 - 2240)	5.06	4.57	97
06+09	Non Duct	Non Duct		7800	10900		18700 (11000 - 25800)	1300 (740 - 2200)	6.44	5.83	97
	Non Duct	Duct		7800	10900		18700 (11000 - 25800)	1360 (740 - 2240)	6.74	6.10	97
06+12	Non Duct	Non Duct		7800	14400		22200 (11000 - 27400)	1680 (740 - 2480)	8.33	7.53	97
	Non Duct	Duct		7800	13600		21400 (11000 - 27400)	1740 (740 - 2520)	8.62	7.80	97
06+15	Non Duct	Non Duct		7200	16400		23600 (11000 - 27400)	1820 (740 - 2440)	9.02	8.16	97
	Non Duct	Duct		7200	16400		23600 (11000 - 27400)	1880 (740 - 2620)	9.32	8.43	97
06+18	Non Duct	Non Duct		6300	17300		23600 (11000 - 29000)	1760 (740 - 2760)	8.72	7.89	97
	Non Duct	Duct		6300	17300		23600 (11000 - 29000)	1820 (740 - 2840)	9.02	8.16	97
09+09	Non Duct	Non Duct		10900	10900		21800 (11000 - 27400)	1580 (740 - 2480)	7.83	7.08	97
	Non Duct	Duct		10900	10900		21800 (11000 - 27400)	1640 (740 - 2520)	8.13	7.35	97
	Duct	Duct		10900	10900		21800 (11000 - 27400)	1700 (740 - 2560)	8.43	7.62	97
09+12	Non Duct	Non Duct		10200	13400		23600 (11000 - 27400)	1820 (740 - 2440)	9.02	8.16	97
	Non Duct	Duct		10200	13200		23400 (11000 - 27400)	1880 (740 - 2600)	9.32	8.43	97
	Duct	Non Duct		10000	13400		23400 (11000 - 27400)	1880 (740 - 2640)	9.32	8.43	97
	Duct	Duct		10000	13200		23200 (11000 - 27400)	1940 (740 - 2800)	9.62	8.70	97
09+15	Non Duct	Non Duct		9000	14600		23600 (11000 - 29000)	1760 (740 - 2760)	8.72	7.89	97
	Non Duct	Duct		9000	14600		23600 (11000 - 29000)	1820 (740 - 2820)	9.02	8.16	97
	Duct	Non Duct		9000	14600		23600 (11000 - 29000)	1820 (740 - 2860)	9.02	8.16	97
	Duct	Duct		9000	14600		23600 (11000 - 29000)	1880 (740 - 2920)	9.32	8.43	97
09+18	Non Duct	Non Duct		8000	15600		23600 (11000 - 29000)	1700 (740 - 2720)	8.43	7.62	97
	Non Duct	Duct		8000	15600		23600 (11000 - 29000)	1760 (740 - 2800)	8.72	7.89	97
	Duct	Non Duct		8000	15600		23600 (11000 - 29000)	1760 (740 - 2840)	8.72	7.89	97
	Duct	Duct		8000	15600		23600 (11000 - 29000)	1820 (740 - 2920)	9.02	8.16	97
12+12	Non Duct	Non Duct		11800	11800		23600 (11000 - 29000)	1760 (740 - 2760)	8.72	7.89	97
	Non Duct	Duct		12200	11400		23600 (11000 - 29000)	1820 (740 - 2840)	9.02	8.16	97
	Duct	Duct		11800	11800		23600 (11000 - 29000)	1880 (740 - 2920)	9.32	8.43	97
12+15	Non Duct	Non Duct		10500	13100		23600 (11000 - 29000)	1700 (740 - 2720)	8.43	7.62	97
	Non Duct	Duct		10500	13100		23600 (11000 - 29000)	1760 (740 - 2800)	8.72	7.89	97
	Duct	Non Duct		10200	13400		23600 (11000 - 29000)	1760 (740 - 2800)	8.72	7.89	97
	Duct	Duct		10200	13400		23600 (11000 - 29000)	1820 (740 - 2860)	9.02	8.16	97
06+06+06	Non Duct	Non Duct	Non Duct	7800	7800	7800	23400 (11400 - 30600)	1750 (740 - 2420)	8.67	7.84	97
06+06+09	Non Duct	Non Duct	Non Duct	7400	7400	10200	25000 (11400 - 30600)	1750 (740 - 2440)	8.67	7.84	97
	Non Duct	Non Duct	Duct	7400	7400	9600	24400 (11400 - 30200)	1820 (740 - 2480)	9.02	8.16	97
06+06+12	Non Duct	Non Duct	Non Duct	6500	6500	12000	25000 (11400 - 30600)	1720 (740 - 2460)	8.52	7.71	97
	Non Duct	Non Duct	Duct	6500	6500	11600	24600 (11400 - 30200)	1800 (740 - 2500)	8.92	8.07	97
06+06+15	Non Duct	Non Duct	Non Duct	5900	5900	13200	25000 (11400 - 30600)	1660 (740 - 2480)	8.23	7.44	97
	Non Duct	Non Duct	Duct	5900	5900	13000	24800 (11400 - 30200)	1740 (740 - 2520)	8.62	7.80	97
06+09+09	Non Duct	Non Duct	Non Duct	6600	9200	9200	25000 (11400 - 30600)	1720 (740 - 2460)	8.52	7.71	97
	Non Duct	Non Duct	Duct	6600	9200	8900	24700 (11400 - 30200)	1800 (740 - 2500)	8.92	8.07	97
	Non Duct	Duct	Duct	6600	8900	8900	24400 (11400 - 29800)	1880 (740 - 2540)	9.32	8.43	97

MXZ-3B24NA HEATING

Indoor units combination	Indoor type			Heating capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
06+09+12	Non Duct	Non Duct	Non Duct	5900	8300	10800	25000 (11400 - 30600)	1660 (740 - 2480)	8.23	7.44	97
	Non Duct	Non Duct	Duct	5900	8300	10600	24800 (11400 - 30200)	1740 (740 - 2520)	8.62	7.80	97
	Non Duct	Duct	Non Duct	5900	8200	10800	24900 (11400 - 30200)	1740 (740 - 2520)	8.62	7.80	97
	Non Duct	Duct	Duct	5900	8200	10600	24700 (11400 - 29800)	1820 (740 - 2560)	9.02	8.16	97
09+09+09	Non Duct	Non Duct	Non Duct	8333	8333	8333	25000 (11400 - 30600)	1660 (740 - 2480)	8.23	7.44	97
	Non Duct	Non Duct	Duct	8300	8300	8200	24800 (11400 - 30200)	1740 (740 - 2520)	8.62	7.80	97
	Non Duct	Duct	Duct	8300	8200	8200	24700 (11400 - 29800)	1820 (740 - 2560)	9.02	8.16	97
	Duct	Duct	Duct	8200	8200	8200	24600 (11400 - 29400)	1900 (740 - 2600)	9.42	8.52	97

MXZ-3B30NA COOLING

Indoor units combination	Indoor type			Cooling capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
06	Non Duct			6500			6500 (5200 - 6500)	580 (460 - 580)	2.94	2.65	95
09	Non Duct			9000			9000 (7200 - 9000)	800 (580 - 800)	4.05	3.66	95
	Duct			9000			9000 (7200 - 9000)	820 (600 - 820)	4.15	3.75	95
12	Non Duct			12000			12000 (7200 - 12000)	1000 (580 - 1000)	5.06	4.58	95
	Duct			12000			12000 (7200 - 12000)	1020 (600 - 1020)	5.16	4.67	95
15	Non Duct			14000			14000 (7200 - 15000)	1320 (580 - 1320)	6.68	6.04	95
	Duct			15000			15000 (7200 - 15000)	1340 (600 - 1340)	6.78	6.13	95
18	Non Duct			17200			17200 (7200 - 17200)	1570 (580 - 1570)	7.95	7.19	95
	Duct			17200			17200 (7200 - 17200)	1590 (600 - 1590)	8.05	7.28	95
24	Non Duct			22000			22000 (7200 - 22000)	2200 (580 - 2200)	11.13	10.07	95
06+06	Non Duct	Non Duct		6500	6500		13000 (12000 - 13000)	960 (920 - 960)	4.76	4.30	97
06+09	Non Duct	Non Duct		6500	9000		15500 (12000 - 15500)	1200 (920 - 1200)	5.95	5.38	97
	Non Duct	Duct		6500	9000		15500 (12000 - 15500)	1260 (940 - 1260)	6.25	5.65	97
06+12	Non Duct	Non Duct		6500	12000		18500 (12000 - 18500)	1540 (920 - 1540)	7.63	6.90	97
	Non Duct	Duct		6500	12000		18500 (12000 - 18500)	1600 (940 - 1600)	7.93	7.17	97
06+15	Non Duct	Non Duct		6500	14000		20500 (12000 - 20500)	1820 (920 - 1820)	9.02	8.16	97
	Non Duct	Duct		6500	15000		21500 (12000 - 21500)	1940 (940 - 1940)	9.62	8.70	97
06+18	Non Duct	Non Duct		6500	17200		23700 (12000 - 23700)	2440 (920 - 2440)	12.09	10.94	97
	Non Duct	Duct		6500	17200		23700 (12000 - 23700)	2460 (940 - 2460)	12.19	11.03	97
06+24	Non Duct	Non Duct		5900	20100		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
09+09	Non Duct	Non Duct		9000	9000		18000 (12000 - 18000)	1480 (920 - 1480)	7.34	6.63	97
	Non Duct	Duct		9000	9000		18000 (12000 - 18000)	1660 (940 - 1660)	8.23	7.44	97
	Duct	Duct		9000	9000		18000 (12000 - 18000)	1840 (960 - 1840)	9.12	8.25	97
09+12	Non Duct	Non Duct		9000	12000		21000 (12000 - 21000)	1940 (920 - 1940)	9.62	8.70	97
	Non Duct	Duct		9000	12000		21000 (12000 - 21000)	1990 (940 - 1990)	9.86	8.92	97
	Duct	Non Duct		9000	12000		21000 (12000 - 21000)	1990 (940 - 1990)	9.86	8.92	97
	Duct	Duct		9000	12000		21000 (12000 - 21000)	2040 (960 - 2040)	10.11	9.14	97
09+15	Non Duct	Non Duct		9000	15000		24000 (12000 - 24000)	2500 (920 - 2500)	12.39	11.21	97
	Non Duct	Duct		9000	15000		24000 (12000 - 24000)	2520 (940 - 2520)	12.49	11.30	97
	Duct	Non Duct		9000	15000		24000 (12000 - 24000)	2520 (940 - 2520)	12.49	11.30	97
	Duct	Duct		9000	15000		24000 (12000 - 24000)	2540 (960 - 2540)	12.59	11.39	97
09+18	Non Duct	Non Duct		8900	17100		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		8900	17100		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Non Duct		8900	17100		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		8900	17100		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97
09+24	Non Duct	Non Duct		7600	20400		28000 (12000 - 28000)	3200 (920 - 3200)	15.86	14.34	97
	Duct	Non Duct		7600	20400		28000 (12000 - 28000)	3220 (940 - 3220)	15.96	14.43	97
12+12	Non Duct	Non Duct		12000	12000		24000 (12000 - 24000)	2500 (920 - 2500)	12.39	11.21	97
	Non Duct	Duct		12000	12000		24000 (12000 - 24000)	2520 (940 - 2520)	12.49	11.30	97
	Duct	Duct		12000	12000		24000 (12000 - 24000)	2540 (960 - 2540)	12.59	11.39	97
12+15	Non Duct	Non Duct		11500	14500		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		11500	14500		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Non Duct		11500	14500		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		11500	14500		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97
12+18	Non Duct	Non Duct		10400	15600		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		10400	15600		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Non Duct		10400	15600		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		10400	15600		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97

MXZ-3B30NA COOLING

Indoor units combination	Indoor type			Cooling capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
15+15	Non Duct	Non Duct		13000	13000		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		13000	13000		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		13000	13000		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97
15+18	Non Duct	Non Duct		11700	14300		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		11800	14200		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Non Duct		11700	14300		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		11800	14200		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97
18+18	Non Duct	Non Duct		13000	13000		26000 (12000 - 26000)	2800 (920 - 2800)	13.88	12.55	97
	Non Duct	Duct		13000	13000		26000 (12000 - 26000)	2820 (940 - 2820)	13.98	12.64	97
	Duct	Duct		13000	13000		26000 (12000 - 26000)	2840 (960 - 2840)	14.08	12.73	97
06+06+06	Non Duct	Non Duct	Non Duct	6500	6500	6500	19500 (12600 - 19500)	1600 (1000 - 1600)	7.93	7.17	97
06+06+09	Non Duct	Non Duct	Non Duct	6500	6500	9000	22000 (12600 - 22000)	1760 (1000 - 1760)	8.72	7.89	97
	Non Duct	Non Duct	Duct	6500	6500	9000	22000 (12600 - 22000)	1940 (1020 - 1940)	9.62	8.70	97
06+06+12	Non Duct	Non Duct	Non Duct	6500	6500	12000	25000 (12600 - 25000)	2230 (1000 - 2230)	11.05	10.00	97
	Non Duct	Non Duct	Duct	6500	6500	12000	25000 (12600 - 25000)	2330 (1020 - 2330)	11.55	10.44	97
06+06+15	Non Duct	Non Duct	Non Duct	6500	6500	14000	27000 (12600 - 27000)	2530 (1000 - 2530)	12.54	11.34	97
	Non Duct	Non Duct	Duct	6500	6500	15000	28000 (12600 - 28000)	2580 (1020 - 2580)	12.79	11.56	97
06+06+18	Non Duct	Non Duct	Non Duct	6100	6100	16200	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	6100	6100	16200	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
06+09+09	Non Duct	Non Duct	Non Duct	6500	9000	9000	24500 (12600 - 24500)	2230 (1000 - 2230)	11.05	10.00	97
	Non Duct	Non Duct	Duct	6500	9000	9000	24500 (12600 - 24500)	2260 (1020 - 2260)	11.20	10.13	97
	Non Duct	Duct	Duct	6500	9000	9000	24500 (12600 - 24500)	2290 (1040 - 2290)	11.35	10.26	97
06+09+12	Non Duct	Non Duct	Non Duct	6500	9000	12000	27500 (12600 - 27500)	2640 (1000 - 2640)	13.08	11.83	97
	Non Duct	Non Duct	Duct	6500	9000	12000	27500 (12600 - 27500)	2660 (1020 - 2660)	13.18	11.92	97
	Non Duct	Duct	Non Duct	6500	9000	12000	27500 (12600 - 27500)	2670 (1020 - 2670)	13.23	11.97	97
	Non Duct	Duct	Duct	6500	9000	12000	27500 (12600 - 27500)	2690 (1040 - 2690)	13.33	12.06	97
06+09+15	Non Duct	Non Duct	Non Duct	6200	8700	13500	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	6000	8400	14000	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	6200	8200	13500	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	6000	7900	14000	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
06+09+18	Non Duct	Non Duct	Non Duct	5600	7800	15000	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	5600	7800	15000	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	5600	7300	15000	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	5600	7300	15000	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
06+12+12	Non Duct	Non Duct	Non Duct	6000	11200	11200	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	6000	11200	11200	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	6000	11200	11200	28400 (12600 - 28400)	3260 (1040 - 3260)	16.16	14.61	97
06+12+15	Non Duct	Non Duct	Non Duct	5700	10500	12200	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	5500	10200	12700	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	5700	10500	12200	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	5500	10200	12700	28400 (12600 - 28400)	3260 (1040 - 3260)	16.16	14.61	97
06+15+15	Non Duct	Non Duct	Non Duct	5400	11500	11500	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	5200	11200	12000	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	5000	11700	11700	28400 (12600 - 28400)	3260 (1040 - 3260)	16.16	14.61	97
09+09+09	Non Duct	Non Duct	Non Duct	9000	9000	9000	27000 (12600 - 27000)	2530 (1000 - 2530)	12.54	11.34	97
	Non Duct	Non Duct	Duct	9000	9000	8500	26500 (12600 - 26500)	2670 (1020 - 2670)	13.23	11.97	97
	Non Duct	Duct	Duct	9000	8500	8500	26000 (12600 - 26000)	2810 (1040 - 2810)	13.93	12.60	97
	Duct	Duct	Duct	8500	8500	8500	25500 (12600 - 25500)	2950 (1060 - 2950)	14.62	13.22	97

MXZ-3B30NA COOLING

Indoor units combination	Indoor type			Cooling capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
09+09+12	Non Duct	Non Duct	Non Duct	8500	8500	11400	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	8500	8500	11400	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	8500	8000	11400	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	8500	8000	11400	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Non Duct	8000	8000	11400	27400 (12600 - 27400)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Duct	8000	8000	11400	27400 (12600 - 27400)	3330 (1060 - 3330)	16.50	14.93	97
09+09+15	Non Duct	Non Duct	Non Duct	8000	8000	12400	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	7750	7750	12900	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	8000	7500	12400	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	7750	7250	12900	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Non Duct	7500	7500	12400	27400 (12600 - 27400)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Duct	7250	7250	12900	27400 (12600 - 27400)	3330 (1060 - 3330)	16.50	14.93	97
09+09+18	Non Duct	Non Duct	Non Duct	7100	7100	14200	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	7100	7100	14200	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	7100	6600	14200	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	7100	6600	14200	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Non Duct	6600	6600	14200	27400 (12600 - 27400)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Duct	6600	6600	14200	27400 (12600 - 27400)	3330 (1060 - 3330)	16.50	14.93	97
09+12+12	Non Duct	Non Duct	Non Duct	7800	10300	10300	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	7800	10300	10300	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	7800	10300	10300	28400 (12600 - 28400)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Non Duct	Non Duct	7300	10300	10300	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Duct	Non Duct	Duct	7300	10300	10300	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Duct	7300	10300	10300	27900 (12600 - 27900)	3330 (1060 - 3330)	16.50	14.93	97
09+12+15	Non Duct	Non Duct	Non Duct	7300	9700	11400	28400 (12600 - 28400)	3120 (1000 - 3120)	15.46	13.98	97
	Non Duct	Non Duct	Duct	7100	9500	11800	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Non Duct	7300	9700	11400	28400 (12600 - 28400)	3190 (1020 - 3190)	15.81	14.30	97
	Non Duct	Duct	Duct	7100	9500	11800	28400 (12600 - 28400)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Non Duct	Non Duct	6800	9700	11400	27900 (12600 - 27900)	3190 (1020 - 3190)	15.81	14.30	97
	Duct	Non Duct	Duct	6600	9500	11800	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Non Duct	6800	9700	11400	27900 (12600 - 27900)	3260 (1040 - 3260)	16.16	14.61	97
	Duct	Duct	Duct	6600	9500	11800	27900 (12600 - 27900)	3330 (1060 - 3330)	16.50	14.93	97

MXZ-3B30NA HEATING

Indoor units combination	Indoor type			Heating capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
09	Non Duct			7800			7800 (6800 - 14400)	640 (540 - 1460)	3.24	2.93	95
09	Non Duct			10900			10900 (8600 - 15400)	1040 (780 - 1520)	5.26	4.76	95
	Duct			10900			10900 (8600 - 15400)	1100 (780 - 1520)	5.57	5.03	95
12	Non Duct			14400			14400 (8600 - 16400)	1320 (780 - 1600)	6.68	6.04	95
	Duct			13600			13600 (8600 - 16400)	1380 (780 - 1600)	6.98	6.32	95
15	Non Duct			18000			18000 (8600 - 21100)	1880 (780 - 2280)	9.51	8.60	95
	Duct			18000			18000 (8600 - 21100)	1940 (780 - 2280)	9.82	8.88	95
18	Non Duct			21600			21600 (8600 - 24900)	2360 (780 - 2770)	11.94	10.80	95
	Duct			21600			21600 (8600 - 24900)	2410 (780 - 2770)	12.20	11.03	95
24	Non Duct			23200			23200 (8600 - 27800)	2520 (780 - 3000)	12.75	11.53	95
06+06	Non Duct	Non Duct		7800	7800		15600 (11000 - 31000)	1020 (740 - 2560)	5.06	4.57	97
06+09	Non Duct	Non Duct		7800	10900		18700 (11000 - 31000)	1300 (740 - 2560)	6.44	5.83	97
	Non Duct	Duct		7800	10900		18700 (11000 - 31000)	1360 (740 - 2560)	6.74	6.10	97
06+12	Non Duct	Non Duct		7800	14400		22200 (11000 - 31000)	1680 (740 - 2560)	8.33	7.53	97
	Non Duct	Duct		7800	13600		21400 (11000 - 31000)	1740 (740 - 2560)	8.62	7.80	97
06+15	Non Duct	Non Duct		7800	18000		25800 (11000 - 33000)	2080 (740 - 2800)	10.31	9.32	97
	Non Duct	Duct		7800	18000		25800 (11000 - 33000)	2080 (740 - 2800)	10.31	9.32	97
06+18	Non Duct	Non Duct		7200	19800		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Non Duct	Duct		7200	19800		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
06+24	Non Duct	Non Duct		6800	20200		27000 (11000 - 35000)	2140 (740 - 2860)	10.61	9.59	97
09+09	Non Duct	Non Duct		10900	10900		21800 (11000 - 31000)	1580 (740 - 2560)	7.83	7.08	97
	Non Duct	Duct		10900	10900		21800 (11000 - 31000)	1640 (740 - 2560)	8.13	7.35	97
	Duct	Duct		10900	10900		21800 (11000 - 31000)	1700 (740 - 2560)	8.43	7.62	97
09+12	Non Duct	Non Duct		10900	14400		25300 (11000 - 33000)	1980 (740 - 2800)	9.81	8.87	97
	Non Duct	Duct		10900	13600		24500 (11000 - 33000)	1980 (740 - 2800)	9.81	8.87	97
	Duct	Non Duct		10900	14400		25300 (11000 - 33000)	1980 (740 - 2800)	9.81	8.87	97
	Duct	Duct		10900	13600		24500 (11000 - 33000)	1980 (740 - 2800)	9.81	8.87	97
09+15	Non Duct	Non Duct		10100	16900		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Non Duct	Duct		10100	16900		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Duct	Non Duct		10100	16900		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Duct	Duct		10100	16900		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
09+18	Non Duct	Non Duct		9000	18000		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Non Duct	Duct		9000	18000		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Duct	Non Duct		9000	18000		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Duct	Duct		9000	18000		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
09+24	Non Duct	Non Duct		7300	19700		27000 (11000 - 35000)	1980 (740 - 2740)	9.81	8.87	97
	Duct	Non Duct		7300	19700		27000 (11000 - 35000)	1980 (740 - 2740)	9.81	8.87	97
12+12	Non Duct	Non Duct		13500	13500		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Non Duct	Duct		13900	13100		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
	Duct	Duct		13500	13500		27000 (11000 - 35000)	2200 (740 - 2920)	10.90	9.86	97
12+15	Non Duct	Non Duct		12000	15000		27000 (11000 - 35000)	2160 (740 - 2860)	10.71	9.68	97
	Non Duct	Duct		12000	15000		27000 (11000 - 35000)	2160 (740 - 2860)	10.71	9.68	97
	Duct	Non Duct		11600	15400		27000 (11000 - 35000)	2160 (740 - 2860)	10.71	9.68	97
	Duct	Duct		11600	15400		27000 (11000 - 35000)	2160 (740 - 2860)	10.71	9.68	97
12+18	Non Duct	Non Duct		10800	16200		27000 (11000 - 35000)	2140 (740 - 2860)	10.61	9.59	97
	Non Duct	Duct		10800	16200		27000 (11000 - 35000)	2140 (740 - 2860)	10.61	9.59	97
	Duct	Non Duct		10400	16600		27000 (11000 - 35000)	2140 (740 - 2860)	10.61	9.59	97
	Duct	Duct		10400	16600		27000 (11000 - 35000)	2140 (740 - 2860)	10.61	9.59	97

MXZ-3B30NA HEATING

Indoor units combination	Indoor type			Heating capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
15+15	Non Duct	Non Duct		13500	13500		27000 (11000 - 35000)	2120 (740 - 2800)	10.51	9.50	97
	Non Duct	Duct		13500	13500		27000 (11000 - 35000)	2120 (740 - 2800)	10.51	9.50	97
	Duct	Duct		13500	13500		27000 (11000 - 35000)	2120 (740 - 2800)	10.51	9.50	97
15+18	Non Duct	Non Duct		12300	14700		27000 (11000 - 35000)	2110 (740 - 2800)	10.46	9.46	97
	Non Duct	Duct		12300	14700		27000 (11000 - 35000)	2110 (740 - 2800)	10.46	9.46	97
	Duct	Non Duct		12300	14700		27000 (11000 - 35000)	2110 (740 - 2800)	10.46	9.46	97
	Non Duct	Duct		12300	14700		27000 (11000 - 35000)	2110 (740 - 2800)	10.46	9.46	97
18+18	Non Duct	Non Duct		13500	13500		27000 (11000 - 35000)	2100 (740 - 2800)	10.41	9.41	97
	Non Duct	Duct		13500	13500		27000 (11000 - 35000)	2100 (740 - 2800)	10.41	9.41	97
	Duct	Duct		13500	13500		27000 (11000 - 35000)	2100 (740 - 2800)	10.41	9.41	97
06+06+06	Non Duct	Non Duct	Non Duct	7800	7800	7800	23400 (11400 - 36000)	1750 (740 - 2820)	8.67	7.84	97
06+06+09	Non Duct	Non Duct	Non Duct	7800	7800	10900	26500 (11400 - 36000)	1960 (740 - 2820)	9.71	8.79	97
	Non Duct	Non Duct	Duct	7800	7800	10900	26500 (11400 - 35500)	1960 (740 - 2820)	9.71	8.79	97
06+06+12	Non Duct	Non Duct	Non Duct	7450	7450	13700	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	7650	7650	13300	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
06+06+15	Non Duct	Non Duct	Non Duct	6650	6650	15300	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	6650	6650	15300	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
06+06+18	Non Duct	Non Duct	Non Duct	6000	6000	16600	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	6000	6000	16600	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
06+09+09	Non Duct	Non Duct	Non Duct	7600	10500	10500	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	7600	10500	10000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	7600	10000	10000	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
06+09+12	Non Duct	Non Duct	Non Duct	6800	9400	12400	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	6900	9700	12000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	6800	8900	12400	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	6900	9200	12000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
06+09+15	Non Duct	Non Duct	Non Duct	6100	8500	14000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	6100	8500	14000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	6100	8000	14000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	6100	8000	14000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
06+09+18	Non Duct	Non Duct	Non Duct	5600	7700	15300	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	5600	7700	15300	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	5600	7200	15300	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	5600	7200	15300	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
06+12+12	Non Duct	Non Duct	Non Duct	6100	11250	11250	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	6200	11500	10900	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Duct	6400	11100	11100	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
06+12+15	Non Duct	Non Duct	Non Duct	5550	10250	12800	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	5550	10250	12800	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	5600	9900	13100	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Duct	5600	9900	13100	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
06+15+15	Non Duct	Non Duct	Non Duct	5100	11750	11750	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	5100	11750	11750	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Duct	5100	11750	11750	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
09+09+09	Non Duct	Non Duct	Non Duct	9500	9500	9500	28500 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	9500	9500	9000	28000 (11400 - 35500)	2180 (740 - 2820)	10.80	9.77	97
	Non Duct	Duct	Duct	9500	9000	9000	27500 (11400 - 35000)	2210 (740 - 2820)	10.95	9.91	97
	Duct	Duct	Duct	9000	9000	9000	27000 (11400 - 34500)	2240 (740 - 2820)	11.10	10.04	97

MXZ-3B30NA HEATING

Indoor units combination	Indoor type			Heating capacity(BTU/h)				Power consumption (W)	Current(A)		P/F(%)
	A	B	C	Unit A	Unit B	Unit C	Total		208V	230V	
09+09+12	Non Duct	Non Duct	Non Duct	8600	8600	11400	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	8800	8800	11000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	8600	8100	11400	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	8800	8300	11000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Non Duct	8100	8100	11400	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
	Duct	Duct	Duct	8300	8300	11000	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
09+09+15	Non Duct	Non Duct	Non Duct	7800	7800	13000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	7800	7800	13000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	7800	7300	13000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	7800	7300	13000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Non Duct	7300	7300	13000	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
	Duct	Duct	Duct	7300	7300	13000	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
09+09+18	Non Duct	Non Duct	Non Duct	7200	7200	14200	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	7200	7200	14200	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	7200	6700	14200	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Non Duct	Duct	Duct	7200	6700	14200	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Non Duct	6700	6700	14200	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
	Duct	Duct	Duct	6700	6700	14200	27600 (11400 - 35000)	2220 (740 - 2820)	11.00	9.95	97
09+12+12	Non Duct	Non Duct	Non Duct	7800	10400	10400	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	8000	10600	10000	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Duct	8200	10200	10200	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Duct	Non Duct	Non Duct	7300	10400	10400	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Non Duct	Duct	7500	10600	10000	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Duct	7700	10200	10200	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
09+12+15	Non Duct	Non Duct	Non Duct	7200	9500	11900	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Non Duct	Duct	7200	9500	11900	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Non Duct	7300	9200	12100	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Non Duct	Duct	Duct	7300	9200	12100	28600 (11400 - 36000)	2150 (740 - 2820)	10.66	9.64	97
	Duct	Non Duct	Non Duct	6700	9500	11900	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Non Duct	Duct	6700	9500	11900	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Non Duct	6800	9200	12100	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97
	Duct	Duct	Duct	6800	9200	12100	28100 (11400 - 35500)	2190 (740 - 2820)	10.85	9.82	97

MXZ-4B36NA COOLING

Indoor units combination	Indoor type				Cooling capacity(BTU/h)					Power consumption (W)	Current(A)		P/F(%)
	A	B	C	D	Unit A	Unit B	Unit C	Unit D	Total		208V	230V	
06	Non Duct				6500				6500 (5200 ~ 6500)	580 (460 ~ 580)	2.94	2.65	95
09	Non Duct				9000				9000 (7200 ~ 9000)	800 (580 ~ 800)	4.05	3.66	95
	Duct				9000				9000 (7200 ~ 9000)	820 (600 ~ 820)	4.15	3.75	95
12	Non Duct				12000				12000 (7200 ~ 12000)	1000 (580 ~ 1000)	5.06	4.58	95
	Duct				12000				12000 (7200 ~ 12000)	1020 (600 ~ 1020)	5.16	4.67	95
15	Non Duct				14000				14000 (7200 ~ 15000)	1320 (580 ~ 1320)	6.68	6.04	95
	Duct				15000				15000 (7200 ~ 15000)	1340 (600 ~ 1340)	6.78	6.13	95
18	Non Duct				17200				17200 (7200 ~ 17200)	1570 (580 ~ 1570)	7.95	7.19	95
	Duct				17200				17200 (7200 ~ 17200)	1590 (600 ~ 1590)	8.05	7.28	95
24	Non Duct				22000				22000 (7200 ~ 22000)	2200 (580 ~ 2200)	11.13	10.07	95
06+06	Non Duct	Non Duct			6500	6500			13000 (12000 ~ 13000)	960 (920 ~ 960)	4.76	4.30	97
06+09	Non Duct	Non Duct			6500	9000			15500 (12000 ~ 15500)	1200 (920 ~ 1200)	5.95	5.38	97
	Non Duct	Duct			6500	9000			15500 (12000 ~ 15500)	1260 (940 ~ 1260)	6.25	5.65	97
06+12	Non Duct	Non Duct			6500	12000			18500 (12000 ~ 18500)	1540 (920 ~ 1540)	7.63	6.90	97
	Non Duct	Duct			6500	12000			18500 (12000 ~ 18500)	1600 (940 ~ 1600)	7.93	7.17	97
06+15	Non Duct	Non Duct			6500	14000			20500 (12000 ~ 20500)	1820 (920 ~ 1820)	9.02	8.16	97
	Non Duct	Duct			6500	15000			21500 (12000 ~ 21500)	1940 (940 ~ 1940)	9.62	8.70	97
06+18	Non Duct	Non Duct			6500	17200			23700 (12000 ~ 23700)	2440 (920 ~ 2440)	12.09	10.94	97
	Non Duct	Duct			6500	17200			23700 (12000 ~ 23700)	2460 (940 ~ 2460)	12.19	11.03	97
06+24	Non Duct	Non Duct			5900	20100			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
09+09	Non Duct	Non Duct			9000	9000			18000 (12000 ~ 18000)	1480 (920 ~ 1480)	7.34	6.63	97
	Non Duct	Duct			9000	9000			18000 (12000 ~ 18000)	1660 (940 ~ 1660)	8.23	7.44	97
	Duct	Duct			9000	9000			18000 (12000 ~ 18000)	1840 (960 ~ 1840)	9.12	8.25	97
09+12	Non Duct	Non Duct			9000	12000			21000 (12000 ~ 21000)	1940 (920 ~ 1940)	9.62	8.70	97
	Non Duct	Duct			9000	12000			21000 (12000 ~ 21000)	1990 (940 ~ 1990)	9.86	8.92	97
	Duct	Non Duct			9000	12000			21000 (12000 ~ 20600)	1990 (940 ~ 1990)	9.86	8.92	97
	Duct	Duct			9000	12000			21000 (12000 ~ 20600)	2040 (960 ~ 2040)	10.11	9.14	97
09+15	Non Duct	Non Duct			9000	14000			23000 (12000 ~ 23000)	2500 (920 ~ 2500)	12.39	11.21	97
	Non Duct	Duct			9000	15000			24000 (12000 ~ 24000)	2520 (940 ~ 2520)	12.49	11.30	97
	Duct	Non Duct			9000	14000			23000 (12000 ~ 23000)	2520 (940 ~ 2520)	12.49	11.30	97
	Duct	Duct			9000	15000			24000 (12000 ~ 24000)	2540 (960 ~ 2540)	12.59	11.39	97
09+18	Non Duct	Non Duct			8900	17100			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			8900	17100			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Non Duct			8900	17100			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			8900	17100			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97
09+24	Non Duct	Non Duct			7600	20400			28000 (12000 ~ 28000)	3200 (920 ~ 3200)	15.86	14.34	97
	Duct	Non Duct			7600	20400			28000 (12000 ~ 28000)	3220 (940 ~ 3220)	15.96	14.43	97
12+12	Non Duct	Non Duct			12000	12000			24000 (12000 ~ 24000)	2500 (920 ~ 2500)	12.39	11.21	97
	Non Duct	Duct			12000	12000			24000 (12000 ~ 24000)	2520 (940 ~ 2520)	12.49	11.30	97
	Duct	Duct			12000	12000			24000 (12000 ~ 24000)	2540 (960 ~ 2540)	12.59	11.39	97
12+15	Non Duct	Non Duct			12000	14000			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			11500	14500			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Non Duct			12000	14000			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			11500	14500			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97
12+18	Non Duct	Non Duct			10400	15600			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			10400	15600			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Non Duct			10400	15600			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			10400	15600			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97
15+15	Non Duct	Non Duct			13000	13000			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			13000	13000			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			13000	13000			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97
15+18	Non Duct	Non Duct			11700	14300			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			11800	14200			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Non Duct			11700	14300			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			11800	14200			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97
18+18	Non Duct	Non Duct			13000	13000			26000 (12000 ~ 26000)	2800 (920 ~ 2800)	13.88	12.55	97
	Non Duct	Duct			13000	13000			26000 (12000 ~ 26000)	2820 (940 ~ 2820)	13.98	12.64	97
	Duct	Duct			13000	13000			26000 (12000 ~ 26000)	2840 (960 ~ 2840)	14.08	12.73	97

MXZ-4B36NA COOLING

06+06+06	Non Duct	Non Duct	Non Duct		6500	6500	6500		19500 (12600 ~ 19500)	1600 (1000 ~ 1600)	7.93	7.17	97
06+06+09	Non Duct	Non Duct	Non Duct		6500	6500	9000		22000 (12600 ~ 22000)	1760 (1000 ~ 1760)	8.72	7.89	97
	Non Duct	Non Duct	Duct		6500	6500	9000		22000 (12600 ~ 22000)	1940 (1020 ~ 1940)	9.62	8.70	97
06+06+12	Non Duct	Non Duct	Non Duct		6500	6500	12000		25000 (12600 ~ 25000)	2230 (1000 ~ 2230)	11.05	10.00	97
	Non Duct	Non Duct	Duct		6500	6500	12000		25000 (12600 ~ 25000)	2330 (1020 ~ 2330)	11.55	10.44	97
06+06+15	Non Duct	Non Duct	Non Duct		6500	6500	14000		27000 (12600 ~ 27000)	2530 (1000 ~ 2530)	12.54	11.34	97
	Non Duct	Non Duct	Duct		6500	6500	15000		28000 (12600 ~ 28000)	2580 (1020 ~ 2580)	12.79	11.56	97
06+06+18	Non Duct	Non Duct	Non Duct		6500	6500	17200		30200 (12600 ~ 30200)	3100 (1000 ~ 3100)	15.36	13.90	97
	Non Duct	Non Duct	Duct		6500	6500	17200		30200 (12600 ~ 30200)	3120 (1020 ~ 3120)	15.46	13.98	97
06+06+24	Non Duct	Non Duct	Non Duct		6000	6000	20100		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
06+09+09	Non Duct	Non Duct	Non Duct		6500	9000	9000		24500 (12600 ~ 24500)	2230 (1000 ~ 2230)	11.05	10.00	97
	Non Duct	Non Duct	Duct		6500	9000	9000		24500 (12600 ~ 24500)	2260 (1020 ~ 2260)	11.20	10.13	97
	Non Duct	Duct	Duct		6500	9000	9000		24500 (12600 ~ 24500)	2290 (1040 ~ 2290)	11.35	10.26	97
06+09+12	Non Duct	Non Duct	Non Duct		6500	9000	12000		27500 (12600 ~ 27500)	2640 (1000 ~ 2640)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6500	9000	12000		27500 (12600 ~ 27500)	2660 (1020 ~ 2660)	13.18	11.92	97
	Non Duct	Duct	Non Duct		6500	9000	12000		27500 (12600 ~ 27500)	2670 (1020 ~ 2670)	13.23	11.97	97
	Non Duct	Duct	Duct		6500	9000	12000		27500 (12600 ~ 27500)	2690 (1040 ~ 2690)	13.33	12.06	97
06+09+15	Non Duct	Non Duct	Non Duct		6500	9000	14000		29500 (12600 ~ 29500)	2990 (1000 ~ 2990)	14.82	13.40	97
	Non Duct	Non Duct	Duct		6500	9000	15000		30500 (12600 ~ 30500)	3010 (1020 ~ 3010)	14.92	13.49	97
	Non Duct	Duct	Non Duct		6500	9000	14000		29500 (12600 ~ 29500)	3020 (1020 ~ 3020)	14.97	13.54	97
	Non Duct	Duct	Duct		6500	9000	15000		30500 (12600 ~ 30500)	3040 (1040 ~ 3040)	15.07	13.63	97
06+09+18	Non Duct	Non Duct	Non Duct		6400	8800	16900		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		6400	8800	16900		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		6400	8400	16900		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Non Duct	Duct	Duct		6400	8400	16900		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
06+09+24	Non Duct	Non Duct	Non Duct		5600	7700	18800		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Duct	Non Duct		5600	7300	18800		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
06+12+12	Non Duct	Non Duct	Non Duct		6500	12000	12000		30500 (12600 ~ 30500)	3150 (1000 ~ 3150)	15.61	14.12	97
	Non Duct	Non Duct	Duct		6500	12000	12000		30500 (12600 ~ 30500)	3170 (1020 ~ 3170)	15.71	14.21	97
	Non Duct	Duct	Duct		6500	12000	12000		30500 (12600 ~ 30500)	3190 (1040 ~ 3190)	15.81	14.30	97
06+12+15	Non Duct	Non Duct	Non Duct		6400	11900	13800		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		6200	11500	14400		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		6400	11900	13800		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		6200	11500	14400		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
06+12+18	Non Duct	Non Duct	Non Duct		5800	10800	15500		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		5800	10800	15500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		5800	10800	15500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		5800	10800	15500		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
06+15+15	Non Duct	Non Duct	Non Duct		6100	13000	13000		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		5900	12700	13500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		5700	13200	13200		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
06+15+18	Non Duct	Non Duct	Non Duct		5600	11900	14600		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		5600	11900	14600		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		5400	12400	14300		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		5400	12400	14300		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
06+18+18	Non Duct	Non Duct	Non Duct		5100	13500	13500		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		5100	13500	13500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		5100	13500	13500		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
09+09+09	Non Duct	Non Duct	Non Duct		9000	9000	9000		27000 (12600 ~ 27000)	2530 (1000 ~ 2530)	12.54	11.34	97
	Non Duct	Non Duct	Duct		9000	9000	8600		26600 (12600 ~ 26600)	2670 (1020 ~ 2670)	13.23	11.97	97
	Non Duct	Duct	Duct		9000	8600	8600		26200 (12600 ~ 26200)	2810 (1040 ~ 2810)	13.93	12.60	97
	Duct	Duct	Duct		8600	8600	8600		25800 (12600 ~ 25800)	2950 (1060 ~ 2950)	14.62	13.22	97
09+09+12	Non Duct	Non Duct	Non Duct		9000	9000	12000		30000 (12600 ~ 30000)	3270 (1000 ~ 3270)	16.21	14.66	97
	Non Duct	Non Duct	Duct		9000	9000	12000		30000 (12600 ~ 30000)	3290 (1020 ~ 3290)	16.31	14.75	97
	Non Duct	Duct	Non Duct		9000	8600	12000		29600 (12600 ~ 29600)	3300 (1020 ~ 3300)	16.36	14.79	97
	Non Duct	Duct	Duct		9000	8600	12000		29600 (12600 ~ 29600)	3320 (1040 ~ 3320)	16.46	14.88	97
	Duct	Duct	Non Duct		8600	8600	12000		29200 (12600 ~ 29200)	3330 (1040 ~ 3330)	16.50	14.93	97
	Duct	Duct	Duct		8600	8600	12000		29200 (12600 ~ 29200)	3350 (1060 ~ 3350)	16.60	15.02	97

MXZ-4B36NA COOLING

09+09+15	Non Duct	Non Duct	Non Duct		9000	9000	14000		32000 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		8800	8800	14500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		9000	8700	14000		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Non Duct	Duct	Duct		8800	8400	14500		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Non Duct		8650	8650	14000		31300 (12600 ~ 31300)	3560 (1040 ~ 3560)	17.64	15.96	97
	Duct	Duct	Duct		8400	8400	14500		31300 (12600 ~ 31300)	3580 (1060 ~ 3580)	17.74	16.05	97
09+09+18	Non Duct	Non Duct	Non Duct		8200	8200	15700		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		8100	8100	15900		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		8200	7800	15700		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Non Duct	Duct	Duct		8100	7700	15900		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Non Duct		7800	7800	15700		31300 (12600 ~ 31300)	3560 (1040 ~ 3560)	17.64	15.96	97
	Duct	Duct	Duct		7700	7700	15900		31300 (12600 ~ 31300)	3580 (1060 ~ 3580)	17.74	16.05	97
09+09+24	Non Duct	Non Duct	Non Duct		6900	6900	18300		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Duct	Non Duct		6900	6500	18300		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Duct	Non Duct		6500	6500	18300		31300 (12600 ~ 31300)	3560 (1040 ~ 3560)	17.64	15.96	97
09+12+12	Non Duct	Non Duct	Non Duct		8700	11700	11700		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		8700	11700	11700		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		8700	11700	11700		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		8300	11700	11700		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		8300	11700	11700		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Duct		8300	11700	11700		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97
09+12+15	Non Duct	Non Duct	Non Duct		8300	11000	12800		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		8000	10700	13400		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		8300	11000	12800		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		8000	10700	13400		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		7900	11000	12800		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		7600	10700	13400		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Non Duct		7900	11000	12800		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Duct		7600	10700	13400		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97
09+12+18	Non Duct	Non Duct	Non Duct		7500	10000	14600		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		7500	10000	14600		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		7500	10000	14600		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		7500	10000	14600		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		7100	10000	14600		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		7100	10000	14600		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Non Duct		7100	10000	14600		31700 (12600 ~ 31700)	3530 (1040 ~ 3530)	17.50	15.82	97
	Duct	Duct	Duct		7100	10000	14600		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97
09+15+15	Non Duct	Non Duct	Non Duct		7700	12200	12200		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		7600	11800	12700		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		7500	12300	12300		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		7700	12000	12000		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		7400	11700	12600		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Duct		7100	12300	12300		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97
09+15+18	Non Duct	Non Duct	Non Duct		7200	11200	13700		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		7200	11200	13700		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		7000	11600	13500		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		7000	11600	13500		32100 (12600 ~ 32100)	3540 (1040 ~ 3520)	17.55	15.87	97
	Duct	Non Duct	Non Duct		7100	11000	13600		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		7100	11000	13600		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Non Duct		6600	11600	13500		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Duct		6600	11600	13500		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97
09+18+18	Non Duct	Non Duct	Non Duct		6500	12800	12800		32100 (12600 ~ 32100)	3500 (1000 ~ 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		6500	12800	12800		32100 (12600 ~ 32100)	3520 (1020 ~ 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		6500	12800	12800		32100 (12600 ~ 32100)	3540 (1040 ~ 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		6100	12800	12800		31700 (12600 ~ 31700)	3530 (1020 ~ 3530)	17.50	15.82	97
	Duct	Non Duct	Duct		6100	12800	12800		31700 (12600 ~ 31700)	3550 (1040 ~ 3550)	17.60	15.91	97
	Duct	Duct	Duct		6100	12800	12800		31700 (12600 ~ 31700)	3570 (1060 ~ 3570)	17.69	16.00	97

MXZ-4B36NA COOLING

12+12+12	Non Duct	Non Duct	Non Duct		10700	10700	10700		32100 (12600 - 32100)	3500 (1000 - 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		10700	10700	10700		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		10700	10700	10700		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Duct		10700	10700	10700		32100 (12600 - 32100)	3560 (1060 - 3560)	17.64	15.96	97
12+12+15	Non Duct	Non Duct	Non Duct		10100	10100	11900		32100 (12600 - 32100)	3500 (1000 - 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		9900	9900	12300		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		10100	10100	11900		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		9900	9900	12300		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Non Duct		10100	10100	11900		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Duct		9900	9900	12300		32100 (12600 - 32100)	3560 (1060 - 3560)	17.64	15.96	97
12+12+18	Non Duct	Non Duct	Non Duct		9300	9300	13500		32100 (12600 - 32100)	3500 (1000 - 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		9300	9300	13500		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Non Duct		9300	9300	13500		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		9300	9300	13500		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Non Duct		9300	9300	13500		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Duct		9300	9300	13500		32100 (12600 - 32100)	3560 (1060 - 3560)	17.64	15.96	97
12+15+15	Non Duct	Non Duct	Non Duct		9700	11200	11200		32100 (12600 - 32100)	3500 (1000 - 3500)	17.35	15.69	97
	Non Duct	Non Duct	Duct		9400	11000	11700		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Non Duct	Duct	Duct		9100	11500	11500		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Non Duct	Non Duct		9700	11200	11200		32100 (12600 - 32100)	3520 (1020 - 3520)	17.45	15.78	97
	Duct	Non Duct	Duct		9400	11000	11700		32100 (12600 - 32100)	3540 (1040 - 3540)	17.55	15.87	97
	Duct	Duct	Duct		9100	11500	11500		32100 (12600 - 32100)	3560 (1060 - 3560)	17.64	15.96	97
06+06+06+06	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	6500	6500	26000 (12600 - 26000)	2080 (1000 - 2080)	10.10	9.13	99
06+06+06+09	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	6500	9000	28500 (12600 - 28500)	2390 (1000 - 2390)	11.61	10.50	99
	Non Duct	Non Duct	Non Duct	Duct	6500	6500	6500	9000	28500 (12600 - 28500)	2420 (1020 - 2420)	11.75	10.63	99
06+06+06+12	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	6500	12000	31500 (12600 - 31500)	2870 (1000 - 2870)	13.94	12.60	99
	Non Duct	Non Duct	Non Duct	Duct	6500	6500	6500	12000	31500 (12600 - 31500)	2890 (1020 - 2890)	14.03	12.69	99
06+06+06+15	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	6500	14000	33500 (12600 - 33500)	3210 (1000 - 3210)	15.59	14.10	99
	Non Duct	Non Duct	Non Duct	Duct	6500	6500	6500	15000	34500 (12600 - 34500)	3230 (1020 - 3230)	15.69	14.19	99
06+06+09+09	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	9000	9000	31000 (12600 - 31000)	2790 (1000 - 2790)	13.55	12.25	99
	Non Duct	Non Duct	Non Duct	Duct	6500	6500	9000	9000	31000 (12600 - 31000)	2820 (1020 - 2820)	13.69	12.38	99
	Non Duct	Non Duct	Duct	Duct	6500	6500	9000	9000	31000 (12600 - 31000)	2850 (1040 - 2850)	13.84	12.52	99
06+06+09+12	Non Duct	Non Duct	Non Duct	Non Duct	6500	6500	9000	12000	34000 (12600 - 34000)	3290 (1000 - 3290)	15.98	14.45	99
	Non Duct	Non Duct	Non Duct	Duct	6500	6500	9000	12000	34000 (12600 - 34000)	3310 (1020 - 3310)	16.07	14.54	99
	Non Duct	Non Duct	Duct	Non Duct	6500	6500	9000	12000	34000 (12600 - 34000)	3320 (1020 - 3320)	16.12	14.58	99
	Non Duct	Non Duct	Duct	Duct	6500	6500	9000	12000	34000 (12600 - 34000)	3340 (1040 - 3340)	16.22	14.67	99
06+06+09+15	Non Duct	Non Duct	Non Duct	Non Duct	6400	6400	8800	13800	35400 (12600 - 36400)	3760 (1000 - 3900)	18.26	16.51	99
	Non Duct	Non Duct	Non Duct	Duct	6200	6200	8600	14200	35200 (12600 - 36400)	3780 (1020 - 3920)	18.36	16.60	99
	Non Duct	Non Duct	Duct	Non Duct	6300	6300	8800	13800	35200 (12600 - 36000)	3800 (1020 - 3940)	18.45	16.69	99
	Non Duct	Non Duct	Duct	Duct	6100	6100	8600	14200	35000 (12600 - 36000)	3820 (1040 - 3960)	18.55	16.78	99
06+06+12+12	Non Duct	Non Duct	Non Duct	Non Duct	6200	6200	11500	11500	35400 (12600 - 36400)	3760 (1000 - 3900)	18.26	16.51	99
	Non Duct	Non Duct	Non Duct	Duct	6200	6200	11400	11400	35200 (12600 - 36400)	3780 (1020 - 3920)	18.36	16.60	99
	Non Duct	Non Duct	Duct	Duct	6200	6200	11300	11300	35000 (12600 - 36400)	3800 (1040 - 3940)	18.45	16.69	99
06+06+12+15	Non Duct	Non Duct	Non Duct	Non Duct	6000	6000	11200	12800	36000 (12600 - 36400)	3820 (1000 - 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	5800	5800	10600	13600	35800 (12600 - 36400)	3840 (1020 - 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Non Duct	6000	6000	11000	12800	35800 (12600 - 36400)	3840 (1020 - 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Duct	5800	5800	10600	13400	35600 (12600 - 36400)	3860 (1040 - 3940)	18.75	16.95	99
06+06+15+15	Non Duct	Non Duct	Non Duct	Non Duct	5700	5700	12300	12300	36000 (12600 - 36400)	3820 (1000 - 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	5500	5500	12000	12800	35800 (12600 - 36400)	3840 (1020 - 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Duct	5400	5400	12400	12400	35600 (12600 - 36400)	3860 (1040 - 3940)	18.75	16.95	99
06+09+09+09	Non Duct	Non Duct	Non Duct	Non Duct	6500	9000	9000	9000	33500 (12600 - 33500)	3210 (1000 - 3210)	15.59	14.10	99
	Non Duct	Non Duct	Non Duct	Duct	6500	9000	9000	9000	33500 (12600 - 33500)	3240 (1020 - 3240)	15.73	14.23	99
	Non Duct	Non Duct	Duct	Duct	6500	9000	9000	9000	33500 (12600 - 33500)	3270 (1040 - 3270)	15.88	14.36	99
	Non Duct	Duct	Duct	Duct	6500	9000	9000	9000	33500 (12600 - 33500)	3300 (1060 - 3300)	16.03	14.49	99

MXZ-4B36NA COOLING

06+09+09+12	Non Duct	Non Duct	Non Duct	Non Duct	6400	8700	8700	11600	35400 (12600 – 36400)	3760 (1000 – 3900)	18.26	16.51	99
	Non Duct	Non Duct	Non Duct	Duct	6300	8700	8700	11500	35200 (12600 – 36400)	3780 (1020 – 3920)	18.36	16.60	99
	Non Duct	Non Duct	Duct	Non Duct	6300	8700	8700	11500	35200 (12600 – 36000)	3800 (1020 – 3930)	18.45	16.69	99
	Non Duct	Non Duct	Duct	Duct	6200	8700	8700	11400	35000 (12600 – 36000)	3820 (1040 – 3950)	18.55	16.78	99
	Non Duct	Duct	Duct	Non Duct	6200	8700	8700	11400	35000 (12600 – 35600)	3840 (1040 – 3960)	18.65	16.86	99
	Non Duct	Duct	Duct	Duct	6200	8600	8600	11400	34800 (12600 – 35600)	3860 (1060 – 3980)	18.75	16.95	99
06+09+09+15	Non Duct	Non Duct	Non Duct	Non Duct	6100	8400	8400	13100	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	5800	8200	8200	13600	35800 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Non Duct	6000	8300	8300	13000	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Non Duct	Duct	Duct	5800	8100	8100	13600	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Non Duct	5900	8300	8300	12900	35400 (12600 – 35600)	3880 (1040 – 3960)	18.84	17.04	99
	Non Duct	Duct	Duct	Duct	5800	8000	8000	13400	35200 (12600 – 35600)	3900 (1060 – 3980)	18.94	17.13	99
06+09+12+12	Non Duct	Non Duct	Non Duct	Non Duct	5900	8300	10900	10900	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	5900	8300	10900	10900	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Duct	5900	8300	10900	10900	36000 (12600 – 36400)	3860 (1040 – 3940)	18.75	16.95	99
	Non Duct	Duct	Non Duct	Non Duct	5900	8100	10800	10800	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Duct	Non Duct	Duct	5900	8100	10800	10800	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Duct	5900	8100	10800	10800	35600 (12600 – 36000)	3890 (1060 – 3970)	18.89	17.08	99
06+09+12+15	Non Duct	Non Duct	Non Duct	Non Duct	5600	7800	10500	12100	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	5500	7600	10200	12700	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Non Duct	5600	7800	10500	12100	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Duct	5500	7600	10200	12700	36000 (12600 – 36400)	3860 (1040 – 3940)	18.75	16.95	99
	Non Duct	Duct	Non Duct	Non Duct	5600	7700	10300	12000	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Duct	Non Duct	Duct	5400	7500	10100	12600	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Non Duct	5600	7700	10300	12000	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Duct	5400	7500	10100	12600	35600 (12600 – 36000)	3890 (1060 – 3970)	18.89	17.08	99
09+09+09+09	Non Duct	Non Duct	Non Duct	Non Duct	8850	8850	8850	8850	35400 (12600 – 36400)	3760 (1000 – 3900)	18.26	16.51	99
	Non Duct	Non Duct	Non Duct	Duct	8850	8850	8850	8600	35150 (12600 – 36000)	3800 (1020 – 3930)	18.45	16.69	99
	Non Duct	Non Duct	Duct	Duct	8850	8850	8600	8600	34900 (12600 – 35600)	3850 (1040 – 3960)	18.70	16.91	99
	Non Duct	Duct	Duct	Duct	8850	8600	8600	8600	34650 (12600 – 35200)	3900 (1060 – 3990)	18.94	17.13	99
	Duct	Duct	Duct	Duct	8600	8600	8600	8600	34400 (12600 – 34800)	3940 (1080 – 4020)	19.13	17.30	99
09+09+09+12	Non Duct	Non Duct	Non Duct	Non Duct	8300	8300	8300	11100	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	8300	8300	8300	11100	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Non Duct	8300	8300	7900	11100	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Non Duct	Duct	Duct	8300	8300	7900	11100	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Non Duct	8300	7900	7900	11100	35200 (12600 – 35600)	3880 (1040 – 3960)	18.84	17.04	99
	Non Duct	Duct	Duct	Duct	8300	7900	7900	11100	35200 (12600 – 35600)	3900 (1060 – 3980)	18.94	17.13	99
	Duct	Duct	Duct	Non Duct	7900	7900	7900	11100	34800 (12600 – 35200)	3910 (1060 – 3990)	18.99	17.17	99
	Duct	Duct	Duct	Duct	7900	7900	7900	11100	34800 (12600 – 35200)	3930 (1080 – 4010)	19.09	17.26	99
09+09+09+15	Non Duct	Non Duct	Non Duct	Non Duct	7900	7900	7900	12300	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	7700	7700	7700	12900	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Non Duct	7900	7900	7500	12300	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Non Duct	Duct	Duct	7700	7700	7300	12900	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Non Duct	7900	7500	7500	12300	35200 (12600 – 35600)	3880 (1040 – 3960)	18.84	17.04	99
	Non Duct	Duct	Duct	Duct	7700	7300	7300	12900	35200 (12600 – 35600)	3900 (1060 – 3980)	18.94	17.13	99
	Duct	Duct	Duct	Non Duct	7500	7500	7500	12300	34800 (12600 – 35200)	3910 (1060 – 3990)	18.99	17.17	99
	Duct	Duct	Duct	Duct	7300	7300	7300	12900	34800 (12600 – 35200)	3930 (1080 – 4010)	19.09	17.26	99
09+09+12+12	Non Duct	Non Duct	Non Duct	Non Duct	7700	7700	10300	10300	36000 (12600 – 36400)	3820 (1000 – 3900)	18.55	16.78	99
	Non Duct	Non Duct	Non Duct	Duct	7700	7700	10300	10300	36000 (12600 – 36400)	3840 (1020 – 3920)	18.65	16.86	99
	Non Duct	Non Duct	Duct	Duct	7700	7700	10300	10300	36000 (12600 – 36400)	3860 (1040 – 3940)	18.75	16.95	99
	Non Duct	Duct	Non Duct	Non Duct	7700	7300	10300	10300	35600 (12600 – 36000)	3850 (1020 – 3930)	18.70	16.91	99
	Non Duct	Duct	Non Duct	Duct	7700	7300	10300	10300	35600 (12600 – 36000)	3870 (1040 – 3950)	18.79	17.00	99
	Non Duct	Duct	Duct	Duct	7700	7300	10300	10300	35600 (12600 – 36000)	3890 (1060 – 3970)	18.89	17.08	99
	Duct	Duct	Non Duct	Non Duct	7300	7300	10300	10300	35200 (12600 – 35600)	3880 (1040 – 3960)	18.84	17.04	99
	Duct	Duct	Non Duct	Duct	7300	7300	10300	10300	35200 (12600 – 35600)	3900 (1060 – 3980)	18.94	17.13	99
	Duct	Duct	Duct	Duct	7300	7300	10300	10300	35200 (12600 – 35600)	3920 (1080 – 4000)	19.04	17.22	99

MXZ-4B36NA HEATING

Indoor units combination	Indoor type				Heating capacity(BTU/h)					Power consumption (W)	Current(A)		P/F(%)
	A	B	C	D	Unit A	Unit B	Unit C	Unit D	Total		208V	230V	
06	Non Duct				7800				7800 (6800 ~ 14400)	640 (540 ~ 1460)	3.24	2.93	95
09	Non Duct				10900				10900 (8600 ~ 15400)	1040 (780 ~ 1520)	5.26	4.76	95
	Duct				10900				10900 (8600 ~ 15400)	1100 (780 ~ 1520)	5.57	5.03	95
12	Non Duct				14400				14400 (8600 ~ 16400)	1320 (780 ~ 1600)	6.68	6.04	95
	Duct				13600				13600 (8600 ~ 16400)	1380 (780 ~ 1600)	6.98	6.32	95
15	Non Duct				18000				18000 (8600 ~ 21100)	1880 (780 ~ 2280)	9.51	8.60	95
	Duct				18000				18000 (8600 ~ 21100)	1940 (780 ~ 2280)	9.82	8.88	95
18	Non Duct				21600				21600 (8600 ~ 24900)	2360 (780 ~ 2770)	11.94	10.80	95
	Duct				21600				21600 (8600 ~ 24900)	2410 (780 ~ 2770)	12.20	11.03	95
24	Non Duct				23200				23200 (8600 ~ 27800)	2520 (780 ~ 3000)	12.75	11.53	95
06+06	Non Duct	Non Duct			7800	7800			15600 (11000 ~ 31000)	1020 (740 ~ 2560)	5.06	4.57	97
06+09	Non Duct	Non Duct			7800	10900			18700 (11000 ~ 31000)	1300 (740 ~ 2560)	6.44	5.83	97
	Non Duct	Duct			7800	10900			18700 (11000 ~ 31000)	1360 (740 ~ 2560)	6.74	6.10	97
06+12	Non Duct	Non Duct			7800	14400			22200 (11000 ~ 31000)	1680 (740 ~ 2560)	8.33	7.53	97
	Non Duct	Duct			7800	13600			21400 (11000 ~ 31000)	1740 (740 ~ 2560)	8.62	7.80	97
06+15	Non Duct	Non Duct			7800	18000			25800 (11000 ~ 33000)	2080 (740 ~ 2800)	10.31	9.32	97
	Non Duct	Duct			7800	18000			25800 (11000 ~ 33000)	2080 (740 ~ 2800)	10.31	9.32	97
06+18	Non Duct	Non Duct			7200	19800			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Non Duct	Duct			7200	19800			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
06+24	Non Duct	Non Duct			6800	20200			27000 (11000 ~ 35000)	2140 (740 ~ 2860)	10.61	9.59	97
09+09	Non Duct	Non Duct			10900	10900			21800 (11000 ~ 31000)	1580 (740 ~ 2560)	7.83	7.08	97
	Non Duct	Duct			10900	10900			21800 (11000 ~ 31000)	1640 (740 ~ 2560)	8.13	7.35	97
	Duct	Duct			10900	10900			21800 (11000 ~ 31000)	1700 (740 ~ 2560)	8.43	7.62	97
09+12	Non Duct	Non Duct			10900	14400			25300 (11000 ~ 33000)	1980 (740 ~ 2800)	9.81	8.87	97
	Non Duct	Duct			10900	13600			24500 (11000 ~ 33000)	1980 (740 ~ 2800)	9.81	8.87	97
	Duct	Non Duct			10900	14400			25300 (11000 ~ 33000)	1980 (740 ~ 2800)	9.81	8.87	97
	Duct	Duct			10900	13600			24500 (11000 ~ 33000)	1980 (740 ~ 2800)	9.81	8.87	97
09+15	Non Duct	Non Duct			10100	16900			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Non Duct	Duct			10100	16900			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Duct	Non Duct			10100	16900			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Duct	Duct			10100	16900			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
09+18	Non Duct	Non Duct			9000	18000			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Non Duct	Duct			9000	18000			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Duct	Non Duct			9000	18000			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Duct	Duct			9000	18000			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
09+24	Non Duct	Non Duct			7300	19700			27000 (11000 ~ 35000)	1980 (740 ~ 2740)	9.81	8.87	97
	Duct	Non Duct			7300	19700			27000 (11000 ~ 35000)	1980 (740 ~ 2740)	9.81	8.87	97
12+12	Non Duct	Non Duct			13500	13500			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Non Duct	Duct			13900	13100			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
	Duct	Duct			13500	13500			27000 (11000 ~ 35000)	2200 (740 ~ 2920)	10.90	9.86	97
12+15	Non Duct	Non Duct			12000	15000			27000 (11000 ~ 35000)	2160 (740 ~ 2860)	10.71	9.68	97
	Non Duct	Duct			12000	15000			27000 (11000 ~ 35000)	2160 (740 ~ 2860)	10.71	9.68	97
	Duct	Non Duct			11600	15400			27000 (11000 ~ 35000)	2160 (740 ~ 2860)	10.71	9.68	97
	Duct	Duct			11600	15400			27000 (11000 ~ 35000)	2160 (740 ~ 2860)	10.71	9.68	97
12+18	Non Duct	Non Duct			10800	16200			27000 (11000 ~ 35000)	2140 (740 ~ 2860)	10.61	9.59	97
	Non Duct	Duct			10800	16200			27000 (11000 ~ 35000)	2140 (740 ~ 2860)	10.61	9.59	97
	Duct	Non Duct			10400	16600			27000 (11000 ~ 35000)	2140 (740 ~ 2860)	10.61	9.59	97
	Duct	Duct			10400	16600			27000 (11000 ~ 35000)	2140 (740 ~ 2860)	10.61	9.59	97
15+15	Non Duct	Non Duct			13500	13500			27000 (11000 ~ 35000)	2120 (740 ~ 2800)	10.51	9.50	97
	Non Duct	Duct			13500	13500			27000 (11000 ~ 35000)	2120 (740 ~ 2800)	10.51	9.50	97
	Duct	Duct			13500	13500			27000 (11000 ~ 35000)	2120 (740 ~ 2800)	10.51	9.50	97
15+18	Non Duct	Non Duct			12300	14700			27000 (11000 ~ 35000)	2110 (740 ~ 2800)	10.46	9.46	97
	Non Duct	Duct			12300	14700			27000 (11000 ~ 35000)	2110 (740 ~ 2800)	10.46	9.46	97
	Duct	Non Duct			12300	14700			27000 (11000 ~ 35000)	2110 (740 ~ 2800)	10.46	9.46	97
	Dcut	Duct			12300	14700			27000 (11000 ~ 35000)	2110 (740 ~ 2800)	10.46	9.46	97
18+18	Non Duct	Non Duct			13500	13500			27000 (11000 ~ 35000)	2100 (740 ~ 2800)	10.41	9.41	97
	Non Duct	Duct			13500	13500			27000 (11000 ~ 35000)	2100 (740 ~ 2800)	10.41	9.41	97
	Duct	Duct			13500	13500			27000 (11000 ~ 35000)	2100 (740 ~ 2800)	10.41	9.41	97

MXZ-4B36NA HEATING

06+06+06	Non Duct	Non Duct	Non Duct		7800	7800	7800		23400 (11400 - 36000)	1750 (740 - 2820)	8.67	7.84	97
06+06+09	Non Duct	Non Duct	Non Duct		7800	7800	10900		26500 (11400 - 36000)	1960 (740 - 2820)	9.71	8.79	97
	Non Duct	Non Duct	Duct		7800	7800	10900		26500 (11400 - 35600)	1960 (740 - 2820)	9.71	8.79	97
06+06+12	Non Duct	Non Duct	Non Duct		7800	7800	14400		30000 (11400 - 36000)	2440 (740 - 2820)	12.09	10.94	97
	Non Duct	Non Duct	Duct		7800	7800	13600		29200 (11400 - 36000)	2440 (740 - 2820)	12.09	10.94	97
06+06+15	Non Duct	Non Duct	Non Duct		7500	7500	17400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7500	7500	17400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+06+18	Non Duct	Non Duct	Non Duct		6800	6800	18800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6800	6800	18800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+06+24	Non Duct	Non Duct	Non Duct		6500	6500	19400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+09+09	Non Duct	Non Duct	Non Duct		7800	10900	10900		29600 (11400 - 36000)	2360 (740 - 2820)	11.70	10.58	97
	Non Duct	Non Duct	Duct		7800	10900	10900		29600 (11400 - 35600)	2360 (740 - 2820)	11.70	10.58	97
	Non Duct	Duct	Duct		7800	10900	10900		29600 (11400 - 35200)	2360 (740 - 2820)	11.70	10.58	97
06+09+12	Non Duct	Non Duct	Non Duct		7600	10700	14100		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7800	10900	13600		32300 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		7600	10300	14100		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		7800	10500	13600		31900 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
06+09+15	Non Duct	Non Duct	Non Duct		6900	9600	15900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6900	9600	15900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		6900	9200	15900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		6900	9200	15900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
06+09+18	Non Duct	Non Duct	Non Duct		6200	8800	17400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6200	8800	17400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		6200	8400	17400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		6200	8400	17400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
06+09+24	Non Duct	Non Duct	Non Duct		6000	8400	18000		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		6000	8000	18000		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
06+12+12	Non Duct	Non Duct	Non Duct		7000	12700	12700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7100	13000	12300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		7200	12600	12600		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+12+15	Non Duct	Non Duct	Non Duct		6300	11600	14500		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6300	11600	14500		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		6400	11200	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		6400	11200	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+12+18	Non Duct	Non Duct	Non Duct		5700	10700	16000		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		5700	10700	16000		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		5900	10200	16300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		5900	10200	16300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+15+15	Non Duct	Non Duct	Non Duct		5800	13300	13300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		5800	13300	13300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		5800	13300	13300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+15+18	Non Duct	Non Duct	Non Duct		5300	12300	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		5300	12300	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		5300	12300	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		5300	12300	14800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+18+18	Non Duct	Non Duct	Non Duct		5000	13700	13700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		5000	13700	13700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		5000	13700	13700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
09+09+09	Non Duct	Non Duct	Non Duct		10800	10800	10800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		10800	10800	10400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		10800	10400	10400		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		10400	10400	10400		31200 (11400 - 34800)	2640 (740 - 2820)	13.08	11.83	97
09+09+12	Non Duct	Non Duct	Non Duct		9800	9800	12800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		10000	10000	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		9800	9400	12800		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		10000	9600	12400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		9400	9400	12800		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		9600	9600	12400		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97

MXZ-4B36NA HEATING

09+09+15	Non Duct	Non Duct	Non Duct		8900	8900	14600		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		8900	8900	14600		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		8900	8500	14600		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		8900	8500	14600		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		8500	8500	14600		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		8500	8500	14600		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
09+09+18	Non Duct	Non Duct	Non Duct		8100	8100	16200		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		8100	8100	16200		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		8100	7700	16200		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		8100	7700	16200		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		7700	7700	16200		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		7700	7700	16200		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
09+09+24	Non Duct	Non Duct	Non Duct		7800	7800	16800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		7800	7400	16800		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		7400	7400	16800		31600 (11400 - 35200)	2640 (740 - 2820)	13.08	11.83	97
09+12+12	Non Duct	Non Duct	Non Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		9100	12000	11300		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		9400	11500	11500		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		8600	11700	11700		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		8700	12000	11300		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		9000	11500	11500		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
09+12+15	Non Duct	Non Duct	Non Duct		8200	10800	13400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		8200	10800	13400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		8300	10400	13700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		8300	10400	13700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		7800	10800	13400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		7800	10800	13400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		7900	10400	13700		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		7900	10400	13700		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
09+12+18	Non Duct	Non Duct	Non Duct		7600	9900	14900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7600	9900	14900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		7600	9600	15200		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		7600	9600	15200		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		7200	9900	14900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		7200	9900	14900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		7200	9600	15200		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		7200	9600	15200		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
09+15+15	Non Duct	Non Duct	Non Duct		7600	12400	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7600	12400	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		7600	12400	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		7200	12400	12400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		7200	12400	12400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		7200	12400	12400		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
09+15+18	Non Duct	Non Duct	Non Duct		7000	11500	13900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		7000	11500	13900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		7000	11500	13900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		7000	11500	13900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		6600	11500	13900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		6600	11500	13900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		6600	11500	13900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		6600	11500	13900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
09+18+18	Non Duct	Non Duct	Non Duct		6600	12900	12900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		6600	12900	12900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		6600	12900	12900		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		6200	12900	12900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		6200	12900	12900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		6200	12900	12900		32000 (11400 - 35600)	2640 (740 - 2820)	13.08	11.83	97

MXZ-4B36NA HEATING

12+12+12	Non Duct	Non Duct	Non Duct		10800	10800	10800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		11000	11000	10400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		11200	10600	10600		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		10800	10800	10800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
12+12+15	Non Duct	Non Duct	Non Duct		10000	10000	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		10000	10000	12400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		10100	9600	12700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		10100	9600	12700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		9700	9700	13000		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		9700	9700	13000		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
12+12+18	Non Duct	Non Duct	Non Duct		9300	9300	13800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		9300	9300	13800		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Non Duct		9400	8900	14100		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		9400	8900	14100		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Non Duct		9000	9000	14400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		9000	9000	14400		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
12+15+15	Non Duct	Non Duct	Non Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Non Duct	Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Non Duct	Duct	Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Non Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Non Duct	Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
	Duct	Duct	Duct		9000	11700	11700		32400 (11400 - 36000)	2640 (740 - 2820)	13.08	11.83	97
06+06+06+06	Non Duct	Non Duct	Non Duct	Non Duct	7800	7800	7800	7800	31200 (11400 - 43000)	2380 (740 - 3880)	11.56	10.45	99
06+06+06+09	Non Duct	Non Duct	Non Duct	Non Duct	7800	7800	7800	10900	34300 (11400 - 43000)	2680 (740 - 3880)	13.01	11.77	99
	Non Duct	Non Duct	Non Duct	Duct	7800	7800	7800	10900	34300 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
06+06+06+12	Non Duct	Non Duct	Non Duct	Non Duct	7400	7400	7400	13800	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	7600	7600	7600	13200	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
06+06+06+15	Non Duct	Non Duct	Non Duct	Non Duct	6800	6800	6800	15600	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	6800	6800	6800	15600	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
06+06+09+09	Non Duct	Non Duct	Non Duct	Non Duct	7500	7500	10500	10500	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	7500	7500	10500	10100	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	7500	7500	10100	10100	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
06+06+09+12	Non Duct	Non Duct	Non Duct	Non Duct	6900	6900	9600	12600	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	7000	7000	9800	12200	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	6900	6900	9200	12600	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	7000	7000	9400	12200	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
06+06+09+15	Non Duct	Non Duct	Non Duct	Non Duct	6300	6300	8800	14600	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	6300	6300	8800	14600	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	6300	6300	8400	14600	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	6300	6300	8400	14600	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
06+06+12+12	Non Duct	Non Duct	Non Duct	Non Duct	6300	6300	11700	11700	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	6400	6400	11900	11300	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	6600	6600	11400	11400	36000 (11400 - 43000)	3060 (740 - 3910)	14.86	13.44	99
06+06+12+15	Non Duct	Non Duct	Non Duct	Non Duct	5900	5900	10700	13500	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	5900	5900	10700	13500	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	6000	6000	10300	13700	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	6000	6000	10300	13700	36000 (11400 - 41200)	3060 (740 - 3910)	14.86	13.44	99
06+06+15+15	Non Duct	Non Duct	Non Duct	Non Duct	5400	5400	12600	12600	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	5400	5400	12600	12600	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	5400	5400	12600	12600	36000 (11400 - 43000)	3060 (740 - 3910)	14.86	13.44	99
06+09+09+09	Non Duct	Non Duct	Non Duct	Non Duct	6900	9700	9700	9700	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	6900	9700	9700	9300	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	6900	9700	9300	9300	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	6900	9300	9300	9300	34800 (11400 - 41800)	3080 (740 - 3930)	14.96	13.53	99

MXZ-4B36NA HEATING

06+09+09+12	Non Duct	Non Duct	Non Duct	Non Duct	6400	8900	8900	11800	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	6400	8900	8900	11800	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	6400	8900	8500	11800	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	6400	8900	8500	11800	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Non Duct	6400	8500	8500	11800	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	6400	8500	8500	11800	35200 (11400 - 42200)	3080 (740 - 3930)	14.96	13.53	99
06+09+09+15	Non Duct	Non Duct	Non Duct	Non Duct	5900	8200	8200	13700	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	5900	8200	8200	13700	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	5900	8200	7800	13700	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	5900	8200	7800	13700	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Non Duct	5900	7800	7800	13700	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	5900	7800	7800	13700	35200 (11400 - 42200)	3080 (740 - 3930)	14.96	13.53	99
06+09+12+12	Non Duct	Non Duct	Non Duct	Non Duct	5900	8300	10900	10900	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	5900	8300	10900	10900	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	5900	8300	10900	10900	36000 (11400 - 43000)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Non Duct	Non Duct	5900	7900	10900	10900	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Duct	Non Duct	Duct	5900	7900	10900	10900	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	5900	7900	10900	10900	35600 (11400 - 42600)	3080 (740 - 3930)	14.96	13.53	99
06+09+12+15	Non Duct	Non Duct	Non Duct	Non Duct	5500	7700	10100	12700	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	5500	7700	10100	12700	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	5500	7700	10100	12700	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	5500	7700	10100	12700	36000 (11400 - 43000)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Non Duct	Non Duct	5500	7300	10100	12700	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Duct	Non Duct	Duct	5500	7300	10100	12700	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Non Duct	5500	7300	10100	12700	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	5500	7300	10100	12700	35600 (11400 - 42600)	3080 (740 - 3930)	14.96	13.53	99
09+09+09+09	Non Duct	Non Duct	Non Duct	Non Duct	9000	9000	9000	9000	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	9000	9000	9000	8600	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	9000	9000	8600	8600	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	9000	8600	8600	8600	34800 (11400 - 41800)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Duct	8600	8600	8600	8600	34400 (11400 - 41400)	3100 (740 - 3940)	15.05	13.61	99
09+09+09+12	Non Duct	Non Duct	Non Duct	Non Duct	8300	8300	8300	11100	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	8500	8500	8500	10500	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	8300	8300	7900	11100	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	8500	8500	8100	10500	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Non Duct	8300	7900	7900	11100	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	8500	8100	8100	10500	35200 (11400 - 42200)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Non Duct	7900	7900	7900	11100	34800 (11400 - 41800)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Duct	8100	8100	8100	10500	34800 (11400 - 41800)	3100 (740 - 3940)	15.05	13.61	99
09+09+09+15	Non Duct	Non Duct	Non Duct	Non Duct	7700	7700	7700	12900	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	7700	7700	7700	12900	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Non Duct	7700	7700	7300	12900	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	7700	7700	7300	12900	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Non Duct	7700	7300	7300	12900	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	7700	7300	7300	12900	35200 (11400 - 42200)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Non Duct	7300	7300	7300	12900	34800 (11400 - 41800)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Duct	7300	7300	7300	12900	34800 (11400 - 41800)	3100 (740 - 3940)	15.05	13.61	99
09+09+12+12	Non Duct	Non Duct	Non Duct	Non Duct	7800	7800	10200	10200	36000 (11400 - 43000)	3020 (740 - 3880)	14.67	13.26	99
	Non Duct	Non Duct	Non Duct	Duct	7900	7900	10400	9800	36000 (11400 - 43000)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Non Duct	Duct	Duct	8000	8000	10000	10000	36000 (11400 - 43000)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Non Duct	Non Duct	7800	7400	10200	10200	35600 (11400 - 42600)	3040 (740 - 3900)	14.76	13.35	99
	Non Duct	Duct	Non Duct	Duct	7900	7500	10400	9800	35600 (11400 - 42600)	3060 (740 - 3910)	14.86	13.44	99
	Non Duct	Duct	Duct	Duct	8000	7600	10000	10000	35600 (11400 - 42600)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Non Duct	Non Duct	7400	7400	10200	10200	35200 (11400 - 42200)	3060 (740 - 3910)	14.86	13.44	99
	Duct	Duct	Non Duct	Duct	7500	7500	10400	9800	35200 (11400 - 42200)	3080 (740 - 3930)	14.96	13.53	99
	Duct	Duct	Duct	Duct	7600	7600	10000	10000	35200 (11400 - 42200)	3100 (740 - 3940)	15.05	13.61	99